

Figure 1

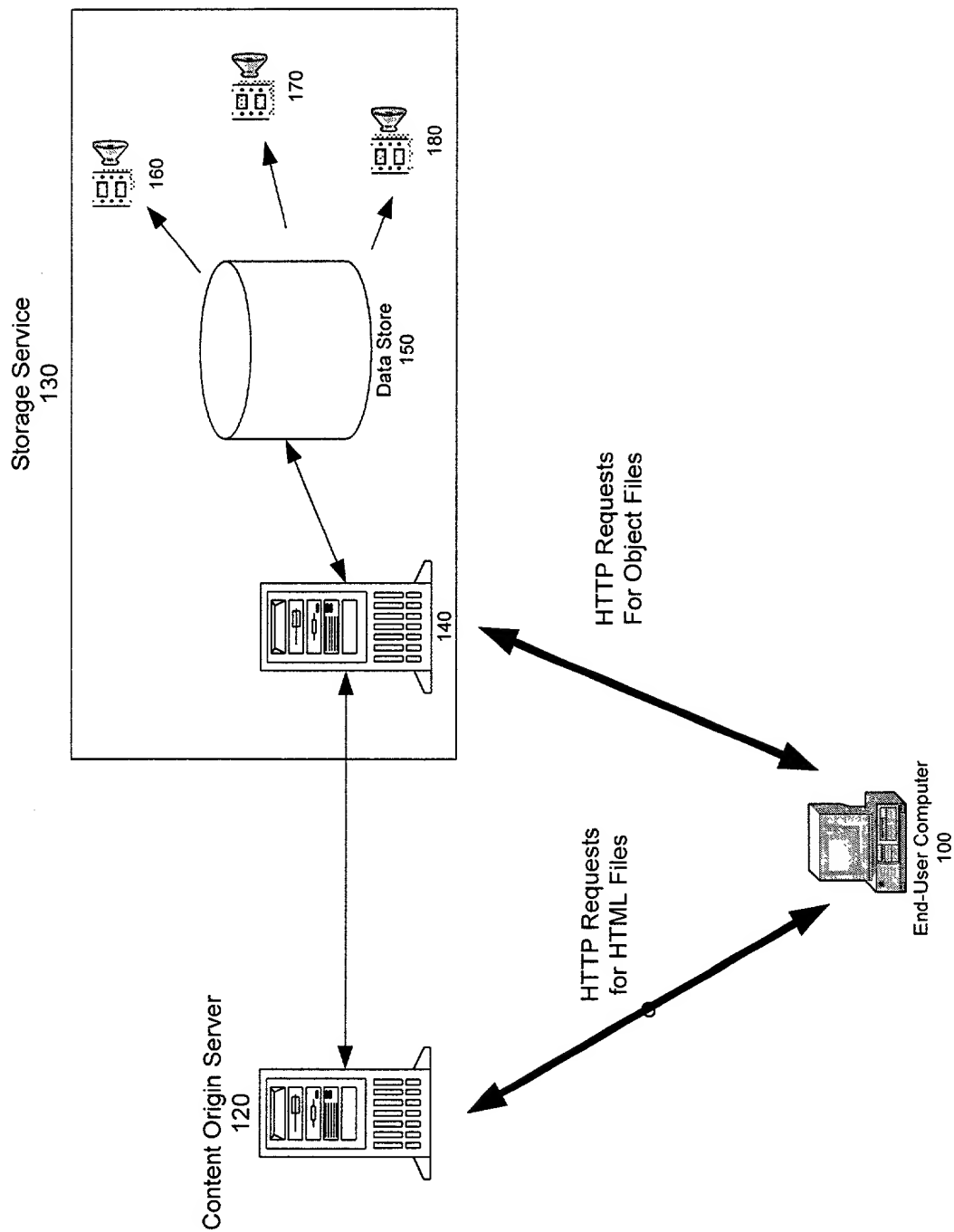


Figure 2

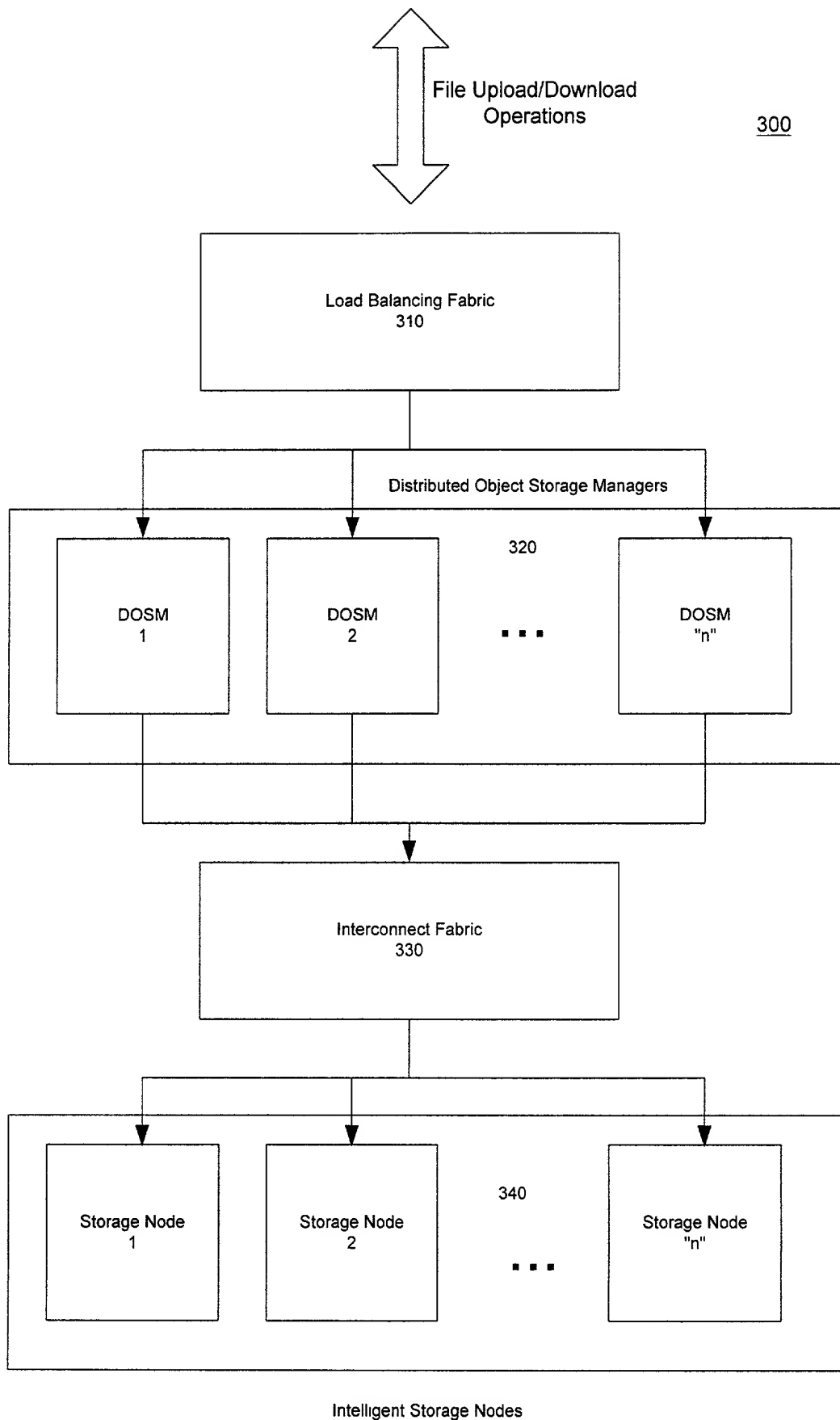


Figure 3

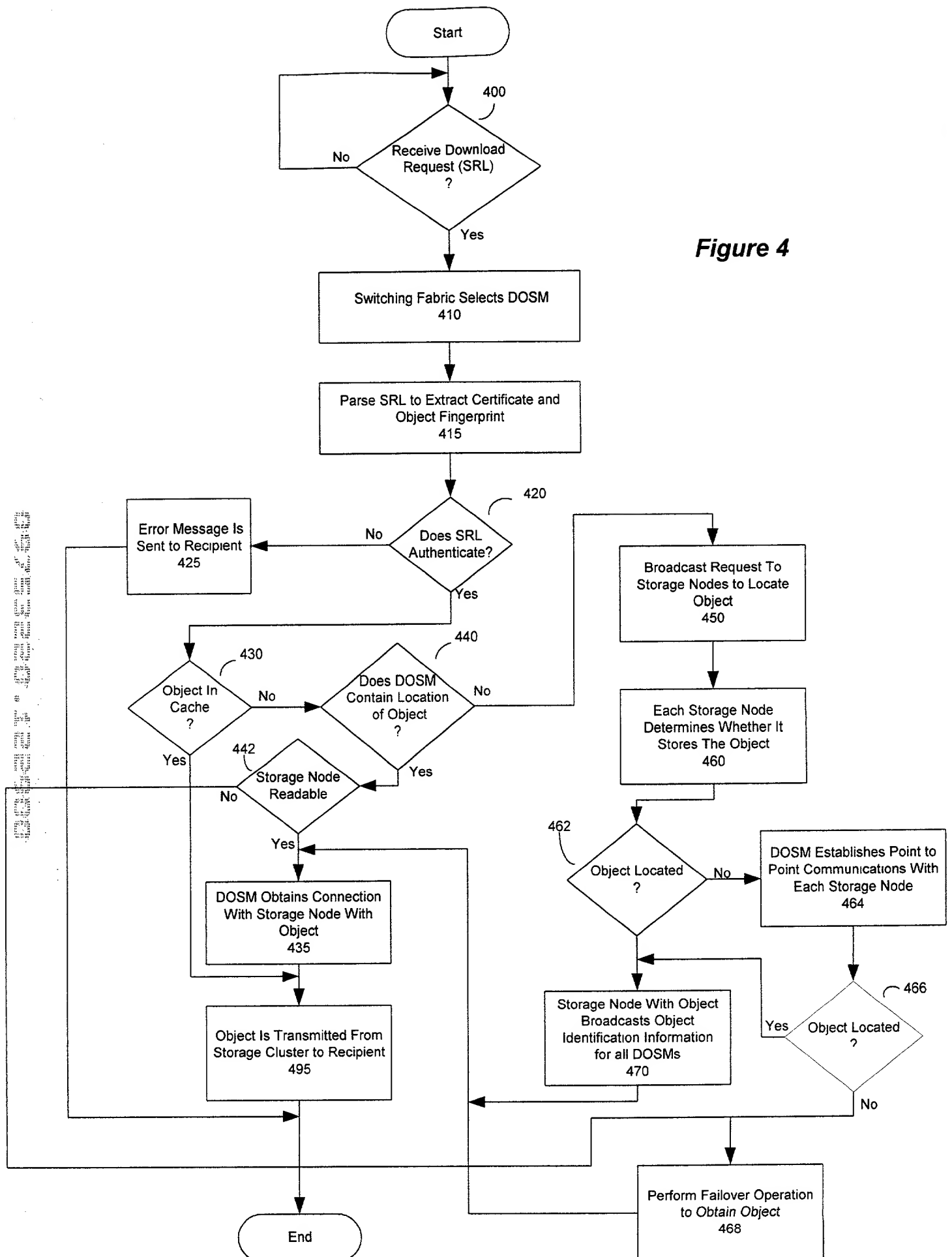


Figure 4

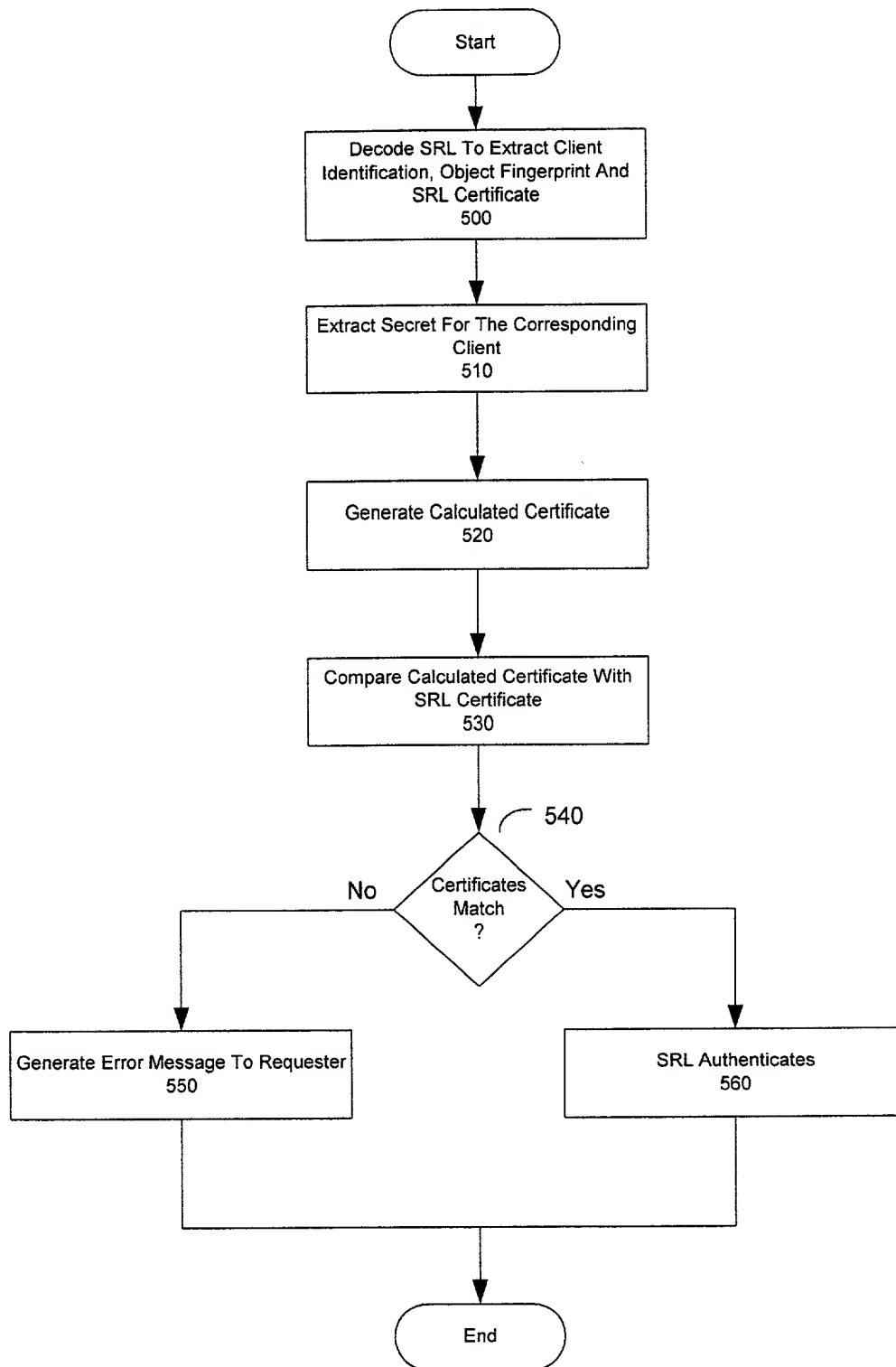


Figure 5

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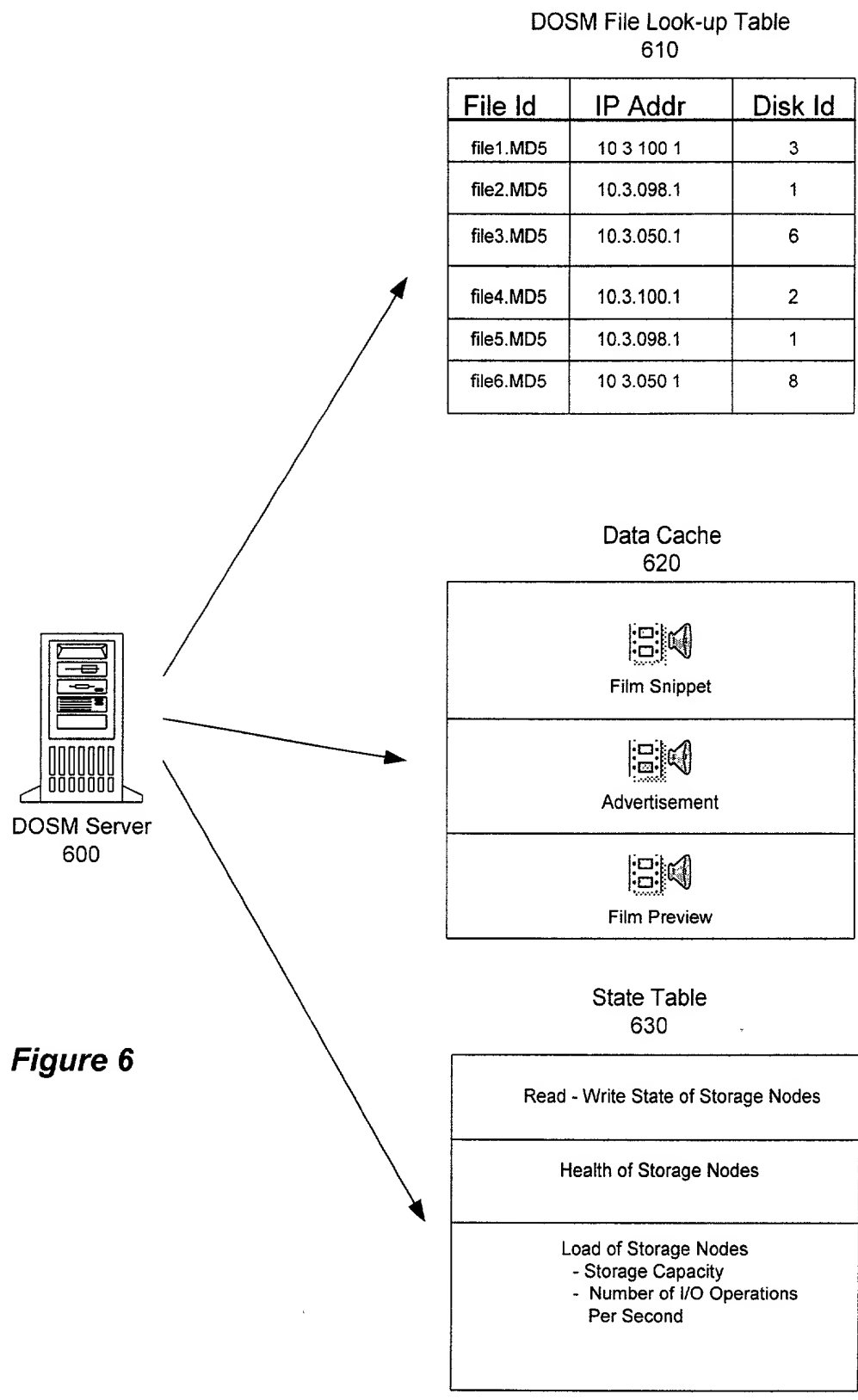


Figure 6

700

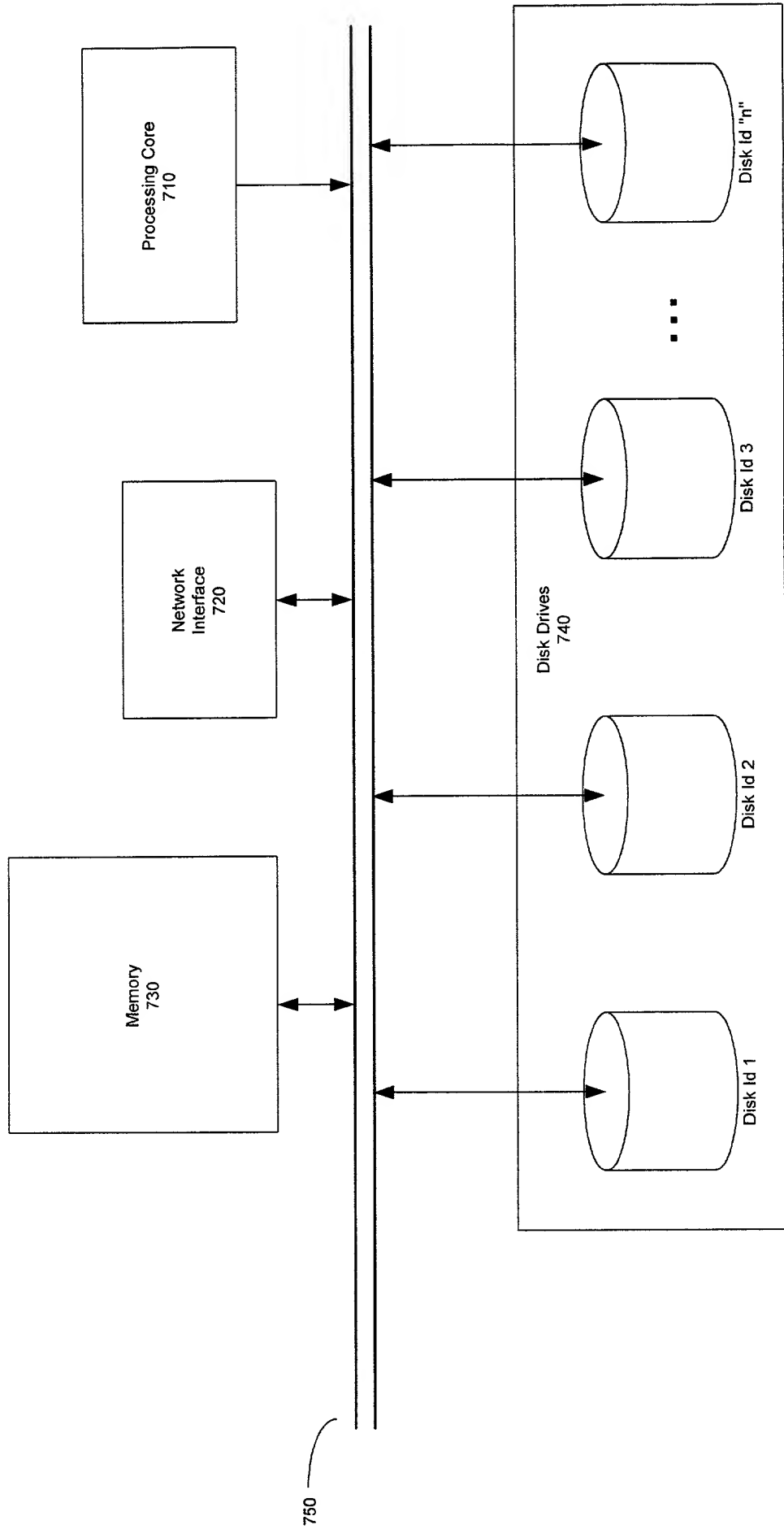


Figure 7

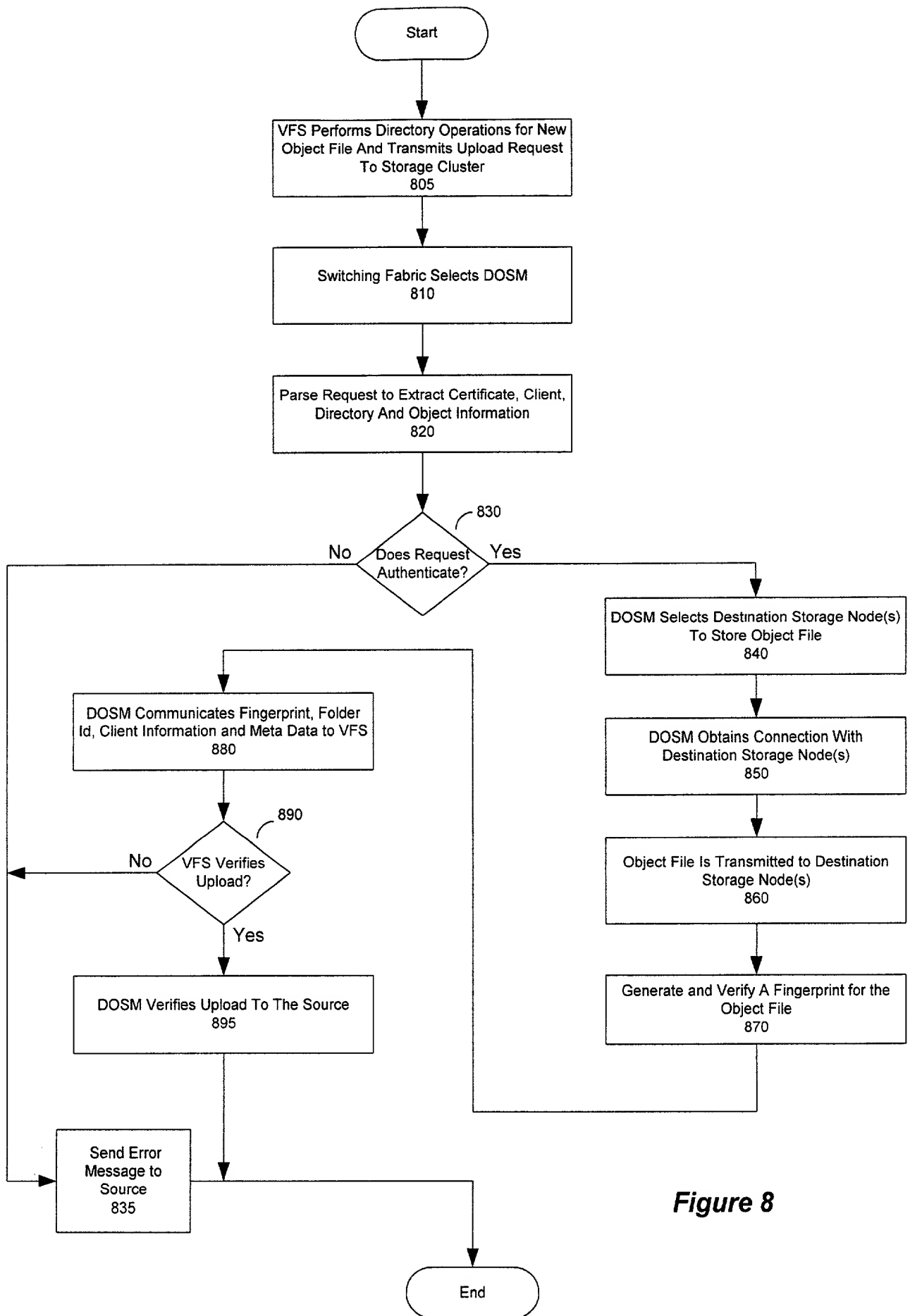


Figure 8

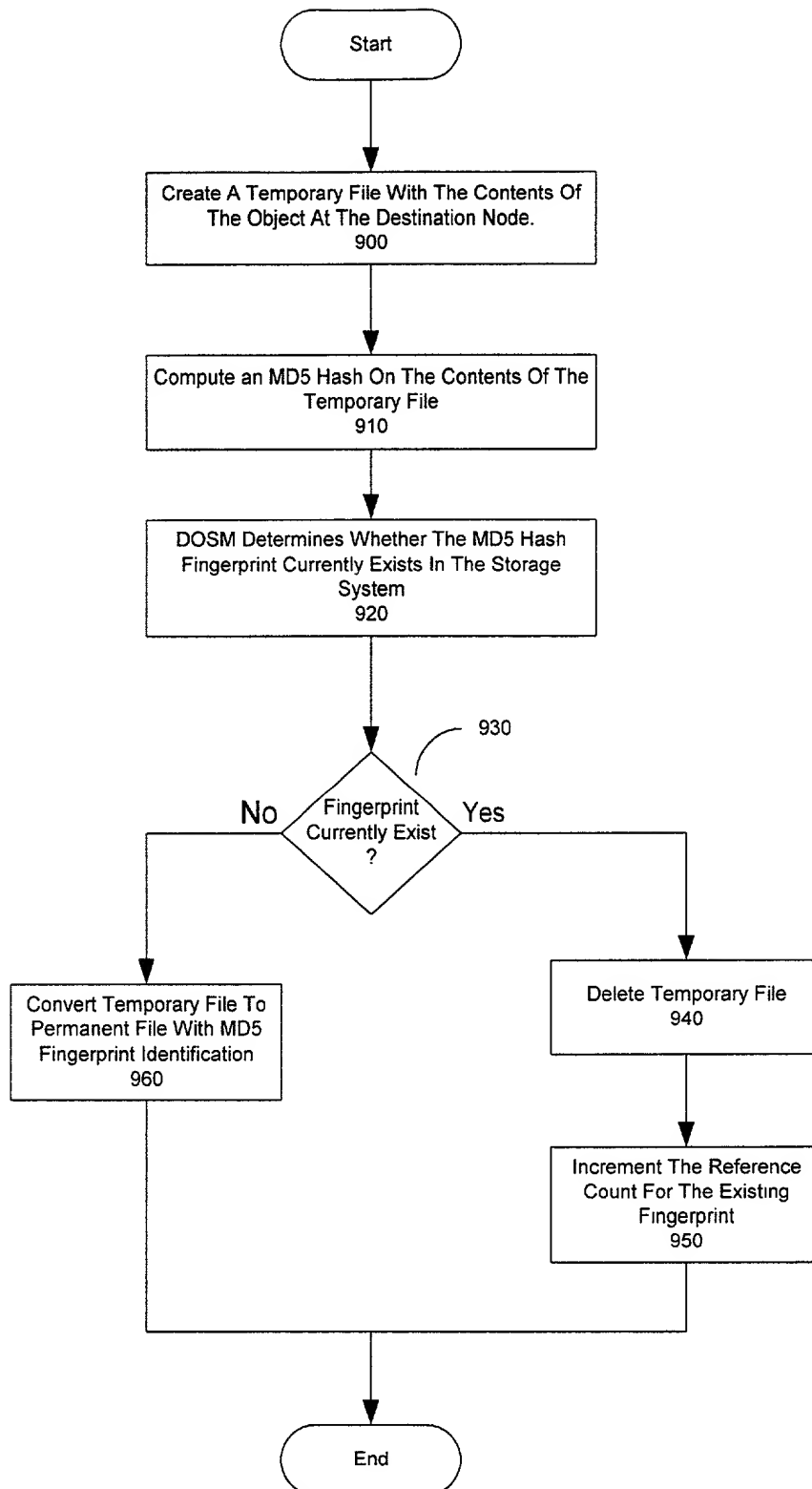


Figure 9

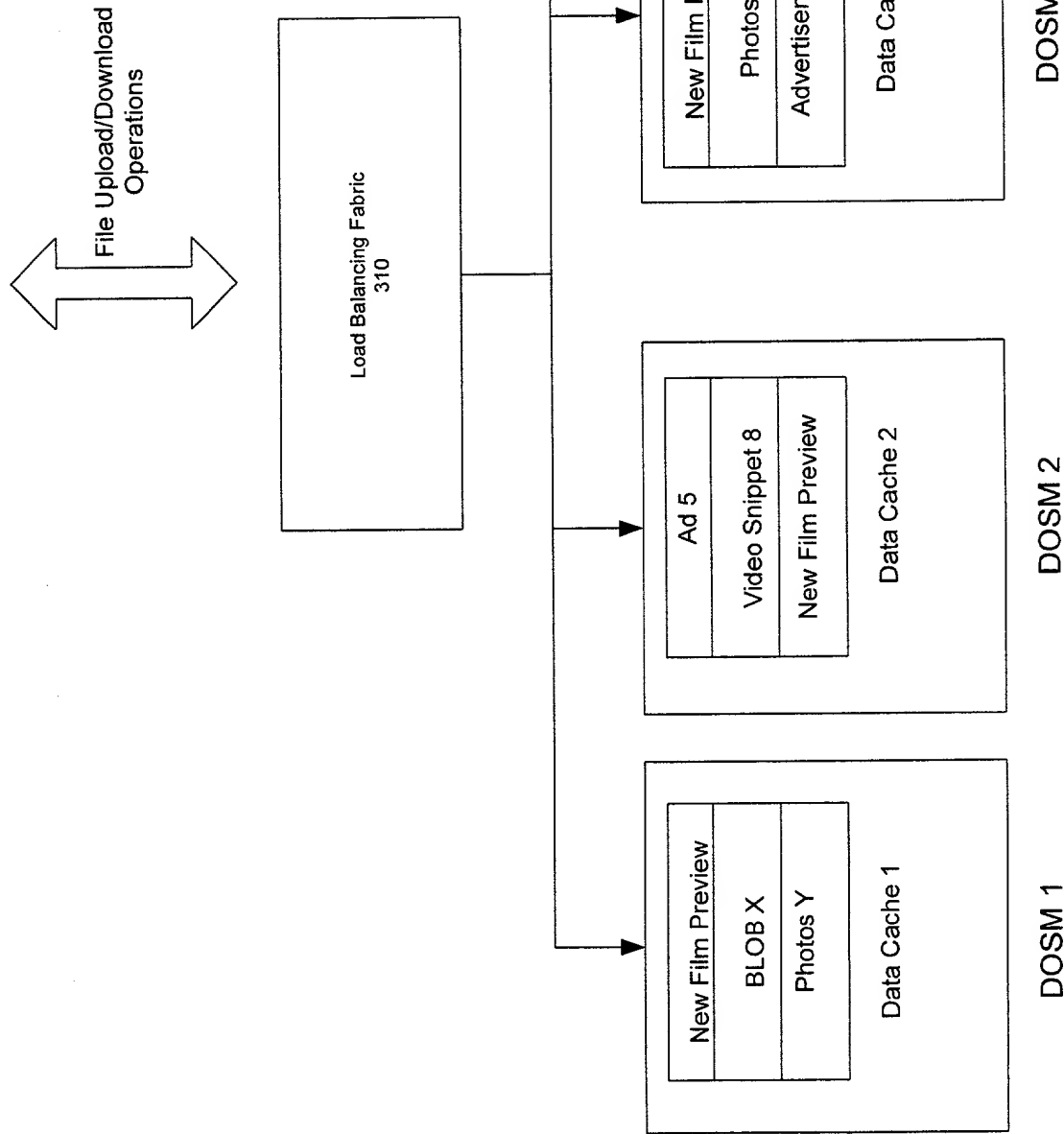


Figure 10

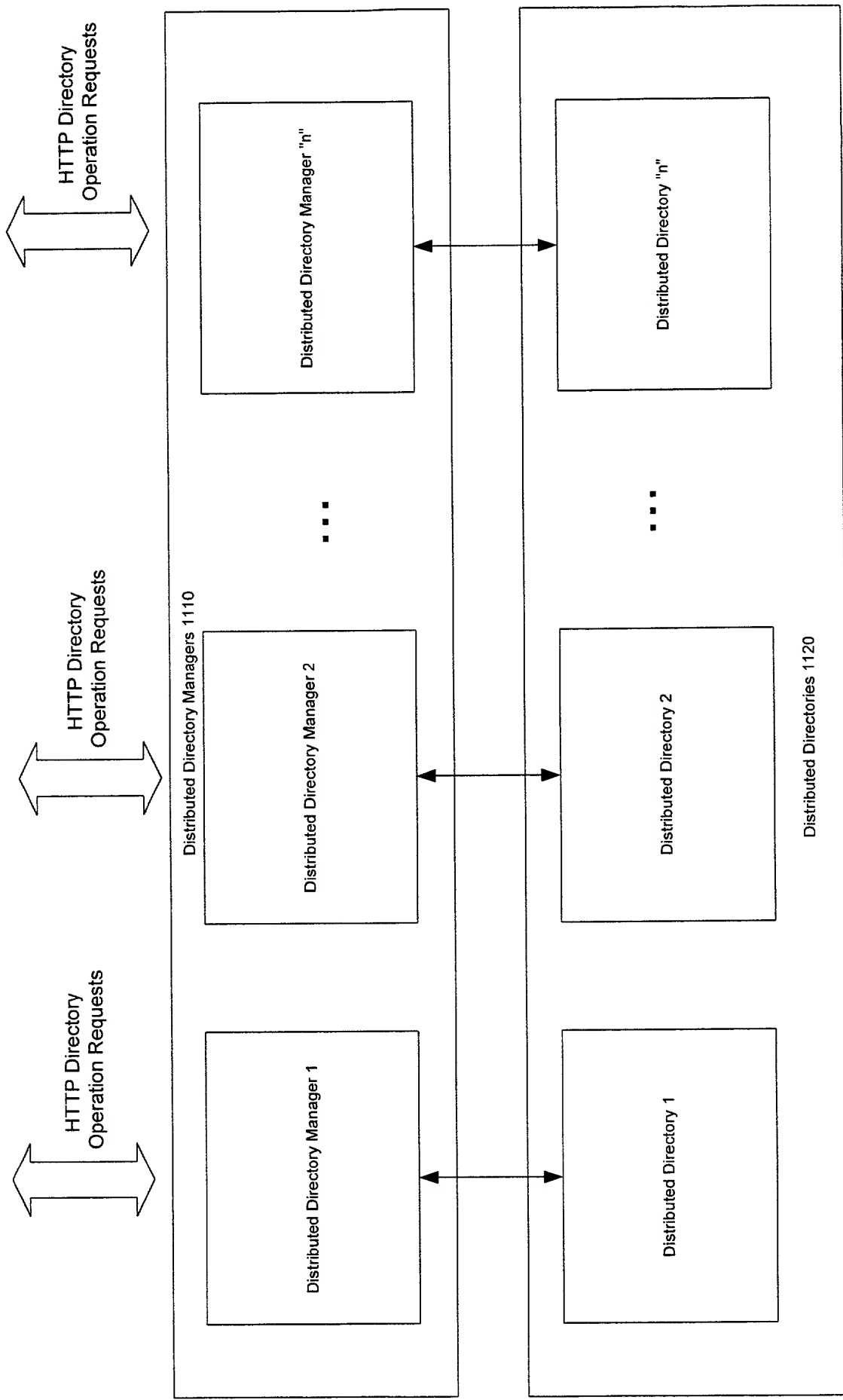


Figure 11

Customer Table

	Customer Name	Customer Reserved Fields
	Customer A	[Customer stores data ...]
	Customer B	[Customer stores data ...]
	Customer C	[Customer stores data ...]
	Customer D	[Customer stores data ...]

1200

Folder Table

Customer Id	Folder Id	Folder Parent Id	Metadata
3	2	-	[Reserved]
3	100	2	[Reserved]
3	251	2	[Reserved]
3	166	251	[Reserved]

1210

File Table

Customer Id	File Handle	Folder Id	Folder Parent Id	Metadata
3	52.MD5	100	2	[Reserved]
3	55.MD5	100	2	[Reserved]
3	99.MD5	166	251	[Reserved]
3	67.MD5	166	251	[Reserved]

1220

Figure 12

FIG. 13A is a flowchart illustrating a process for handling directory operations. The process begins at a Start node, leading to a decision diamond 1300: "Receive Directory Op Request?". If the answer is "No", the flow loops back to the input of diamond 1300. If "Yes", the flow proceeds to a process rectangle 1310: "Parse Request to Extract Certificate, Client Information, Operation Code and Arguments". From 1310, the flow goes to decision diamond 1320: "Does Request Validate?". If "No", the flow goes to a process rectangle 1325: "Send Error Message To Requester", which then leads to the End node. If "Yes", the flow goes to decision diamond 1330: "Operation Code?". From 1330, the flow branches into four parallel paths based on the operation code: 1. "Open Folder?" (1340): If "Yes", process rectangle 1345: "Access File And Folder Tables To Extract File Ids And Sub-Folder Ids". If "No", proceed to the next decision. 2. "Move Folder?" (1350): If "Yes", process rectangle 1355: "Revise Folder Table Entries To Reflect New Location". If "No", proceed to the next decision. 3. "Create Folder?" (1360): If "Yes", process rectangle 1365: "Add Entry For New Folder In Folder Table". If "No", proceed to the next decision. 4. "Move File?" (1370): If "Yes", process rectangle 1375: "Revise File Table Entries To Reflect New Location". If "No", the flow leads to the End node. All four successful operation paths (1345, 1355, 1365, 1375) converge and lead to process rectangle 1390: "Return Arguments To Requester", which then leads to the End node.

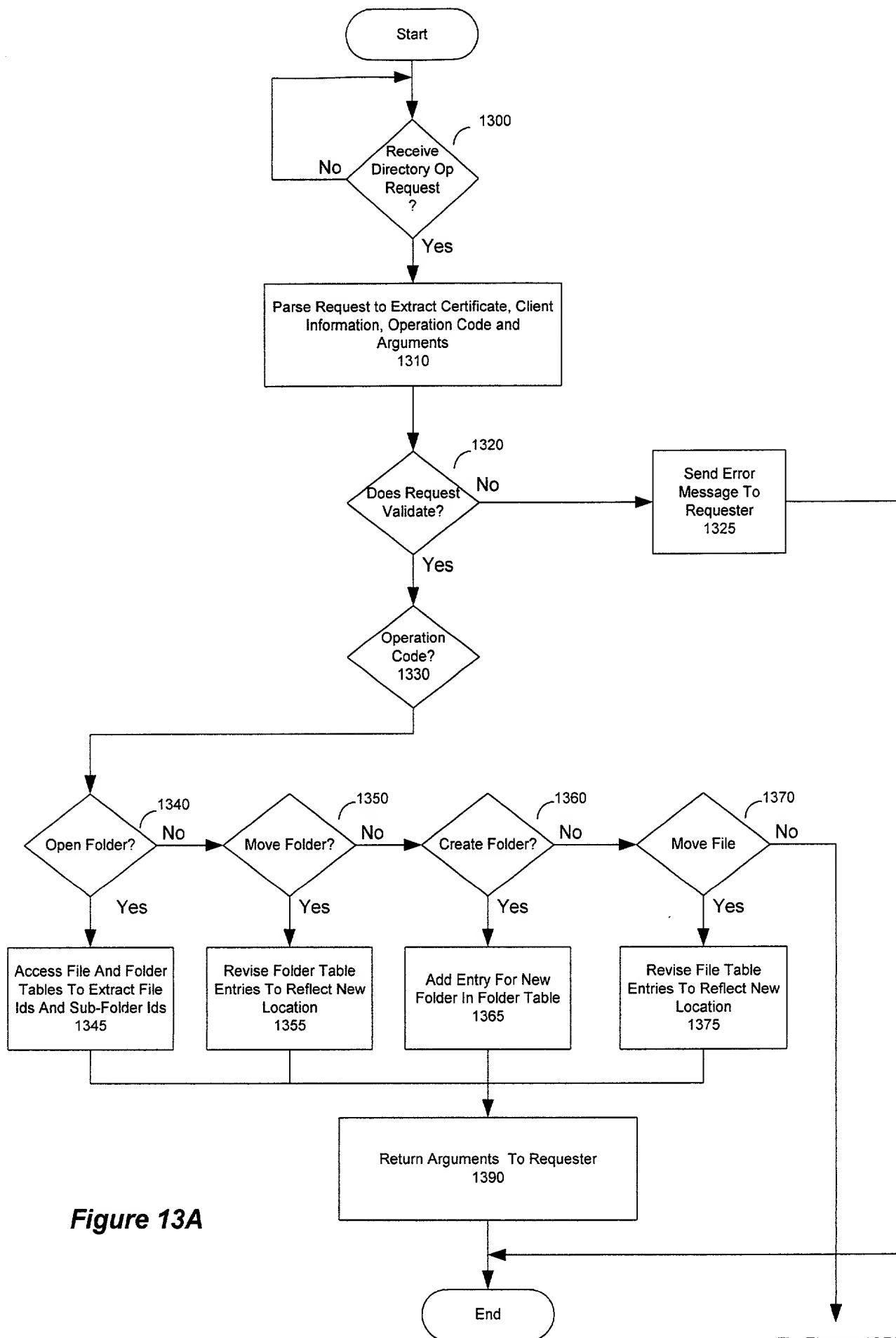


Figure 13A

(To Figure 13B)

(From Figure 13A)

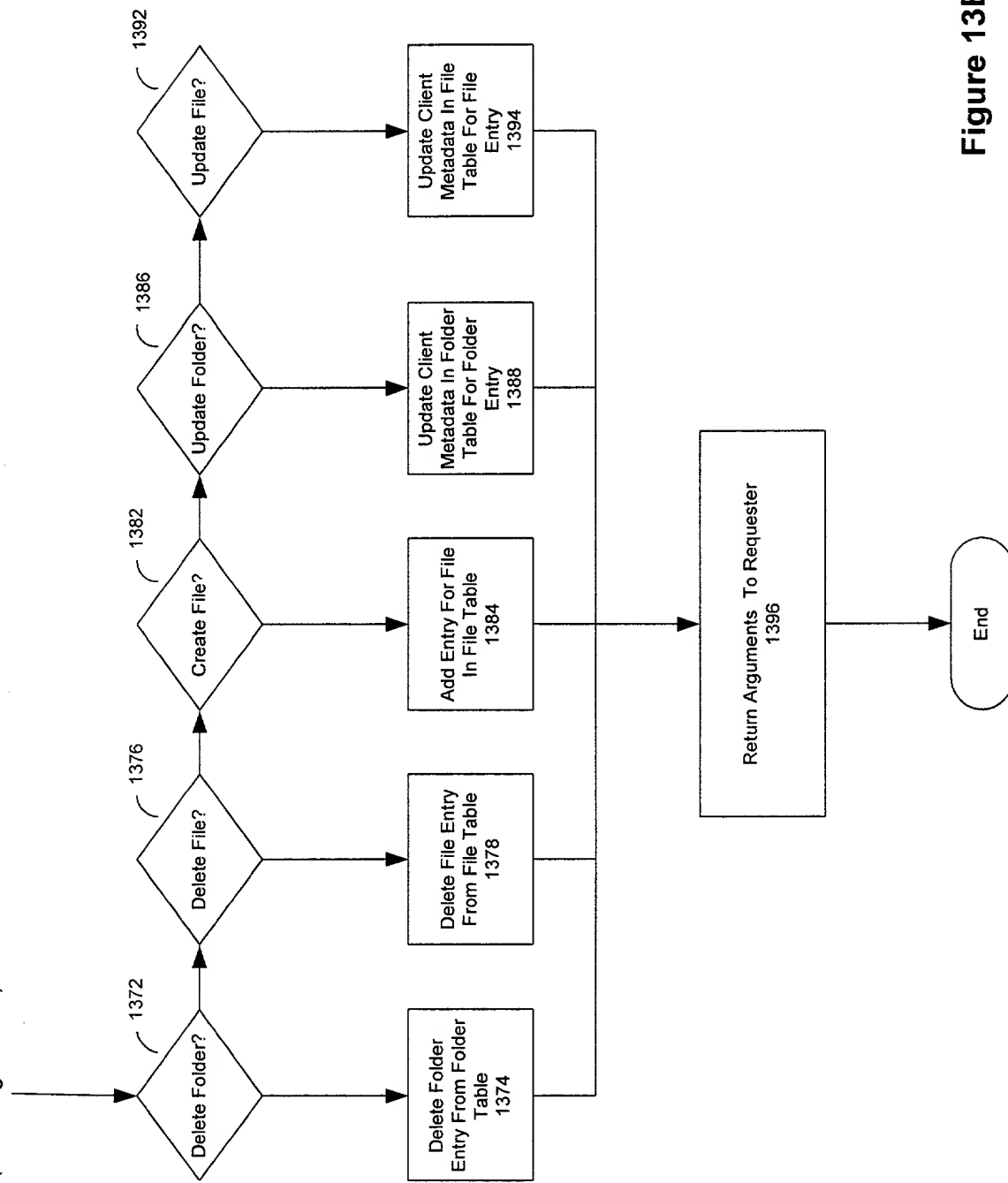


Figure 13B

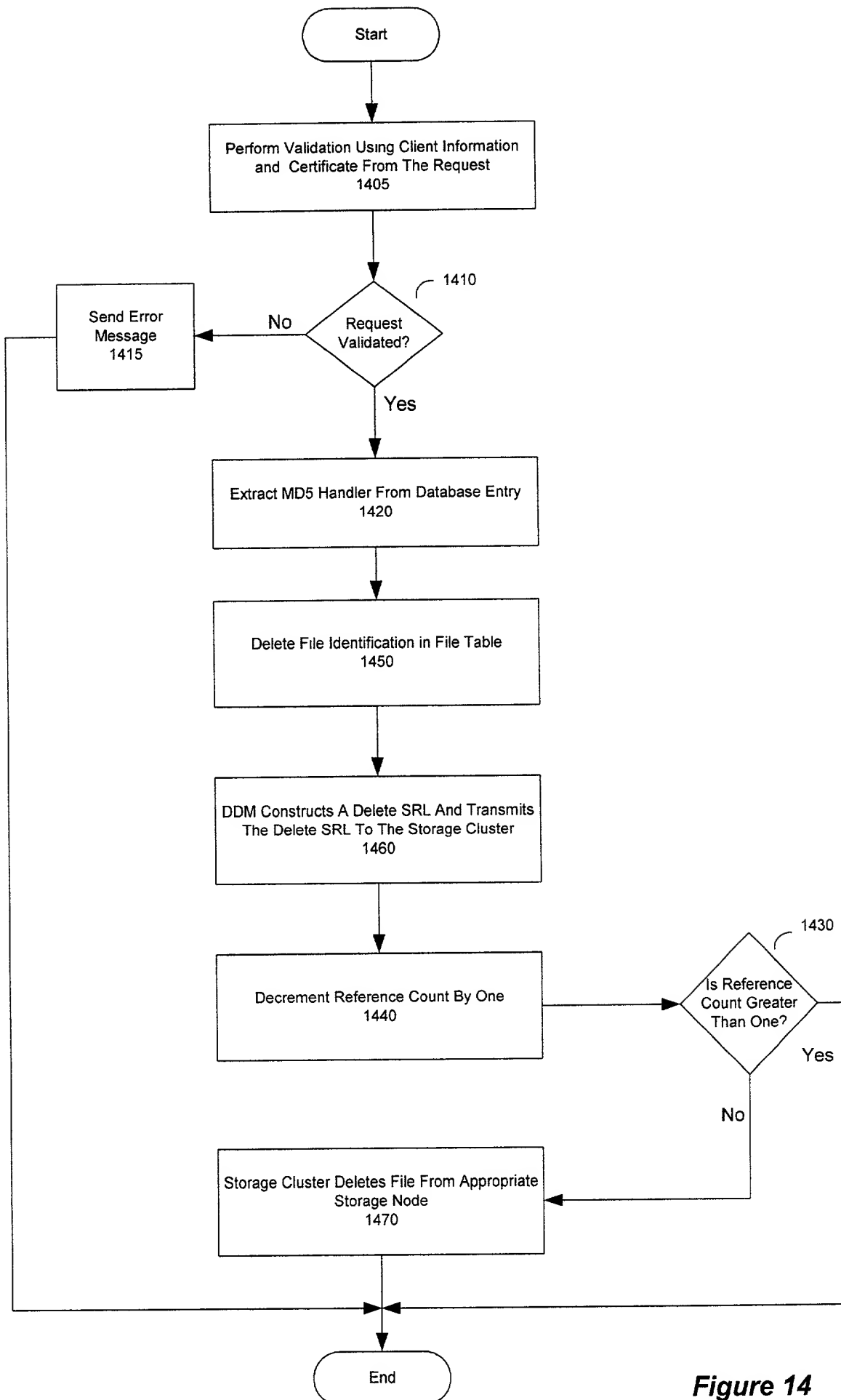


Figure 14

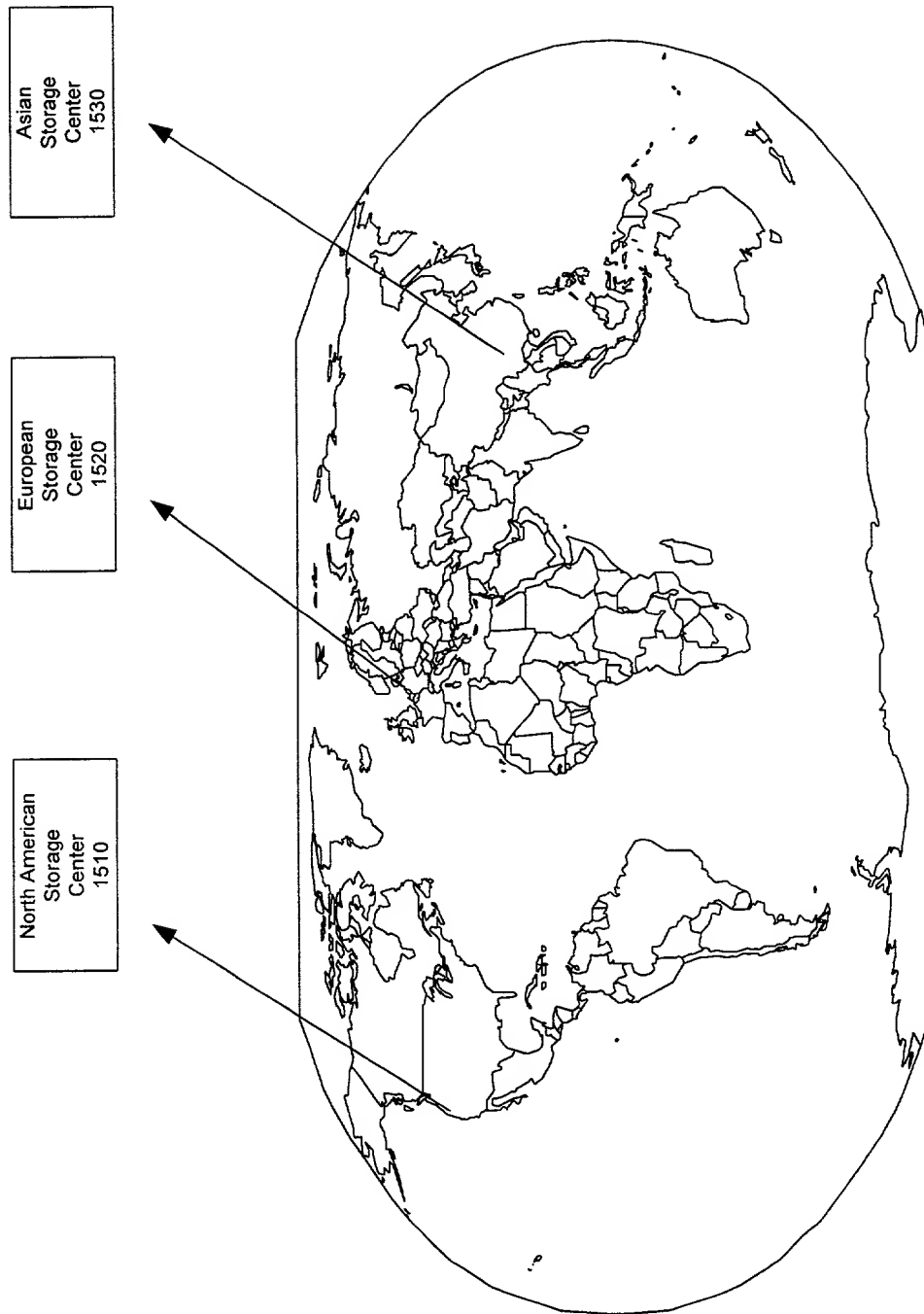


Figure 15

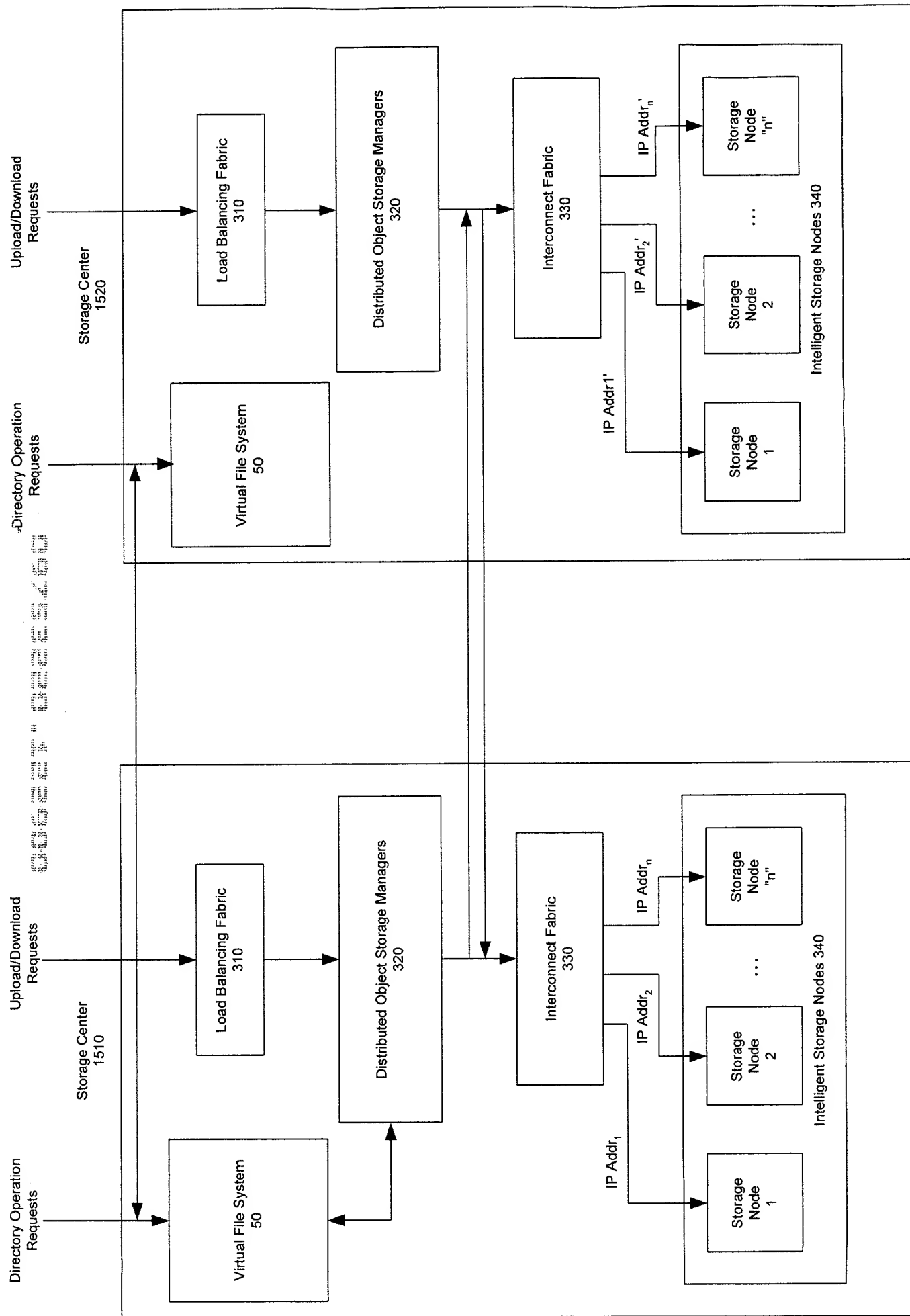


Figure 16

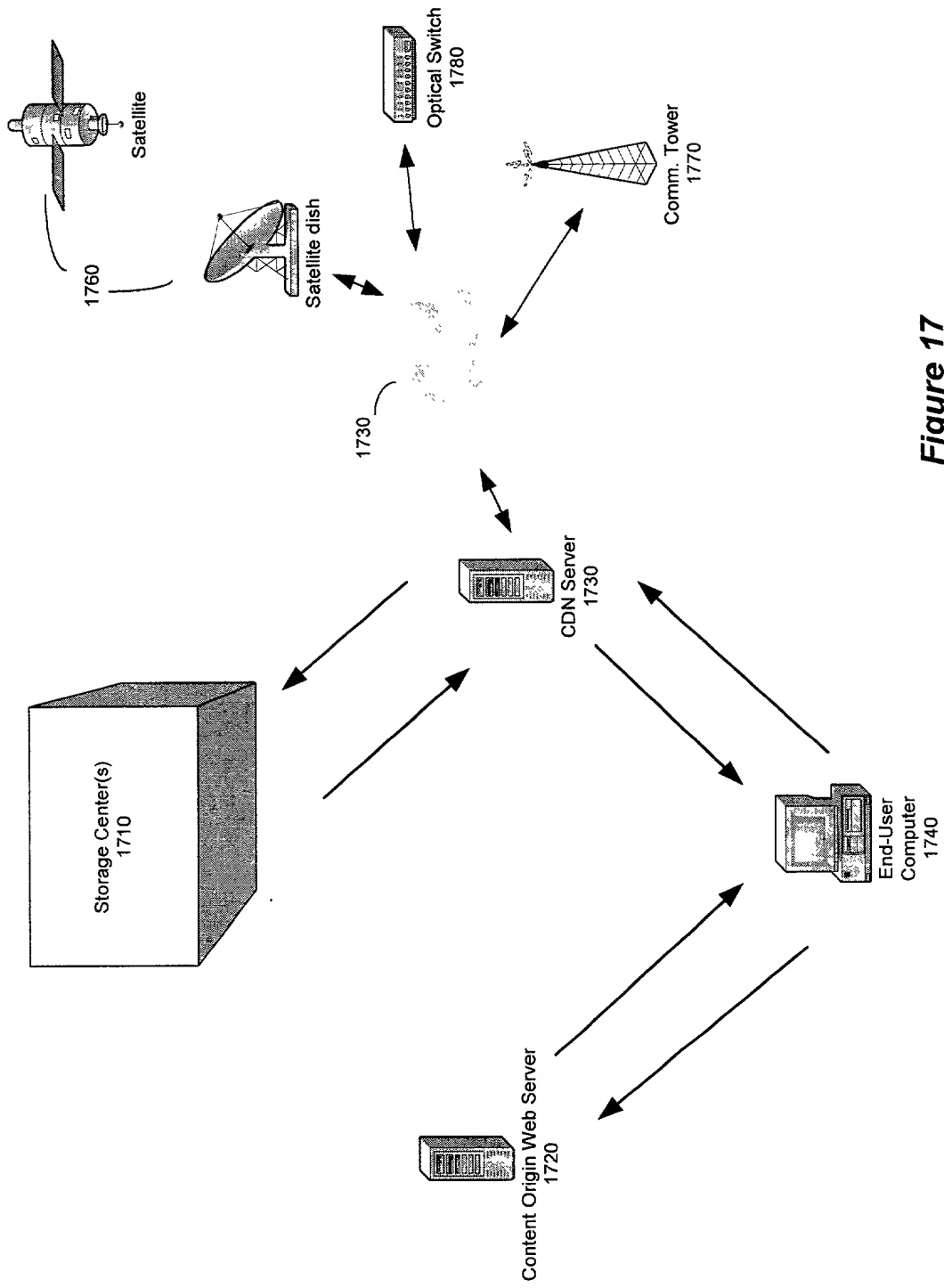


Figure 17

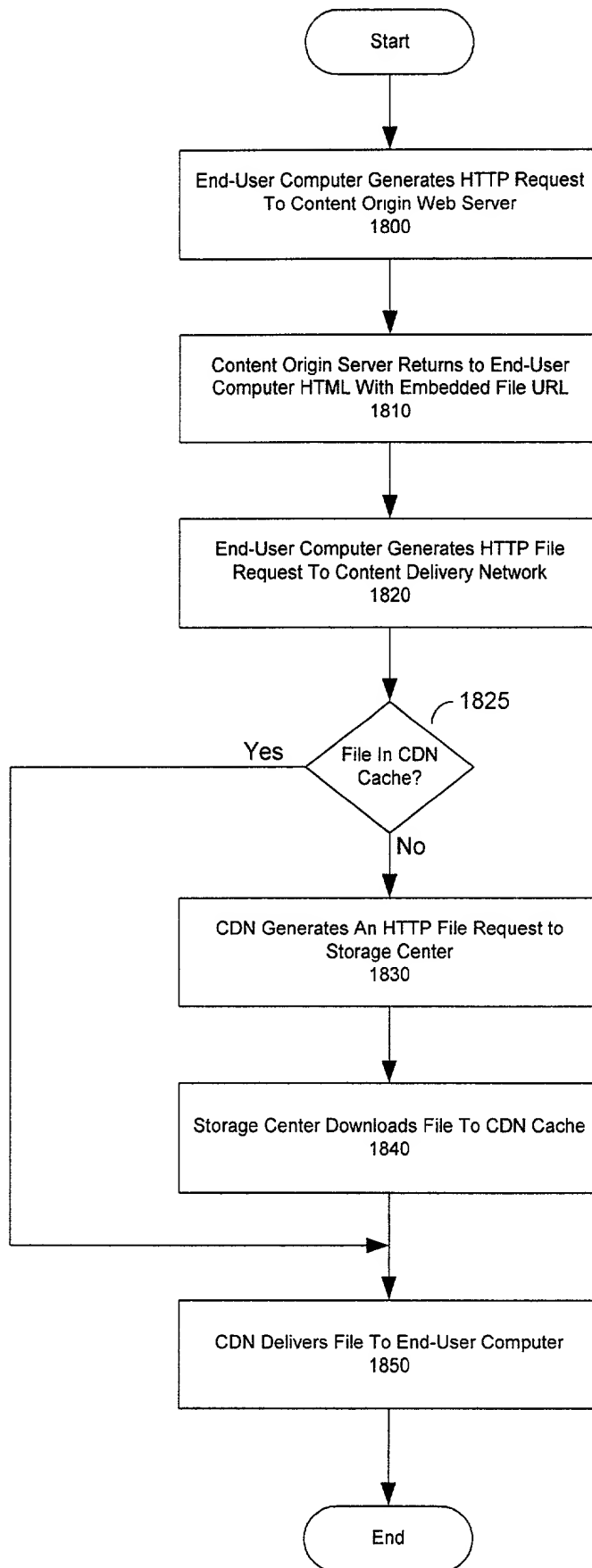


Figure 18

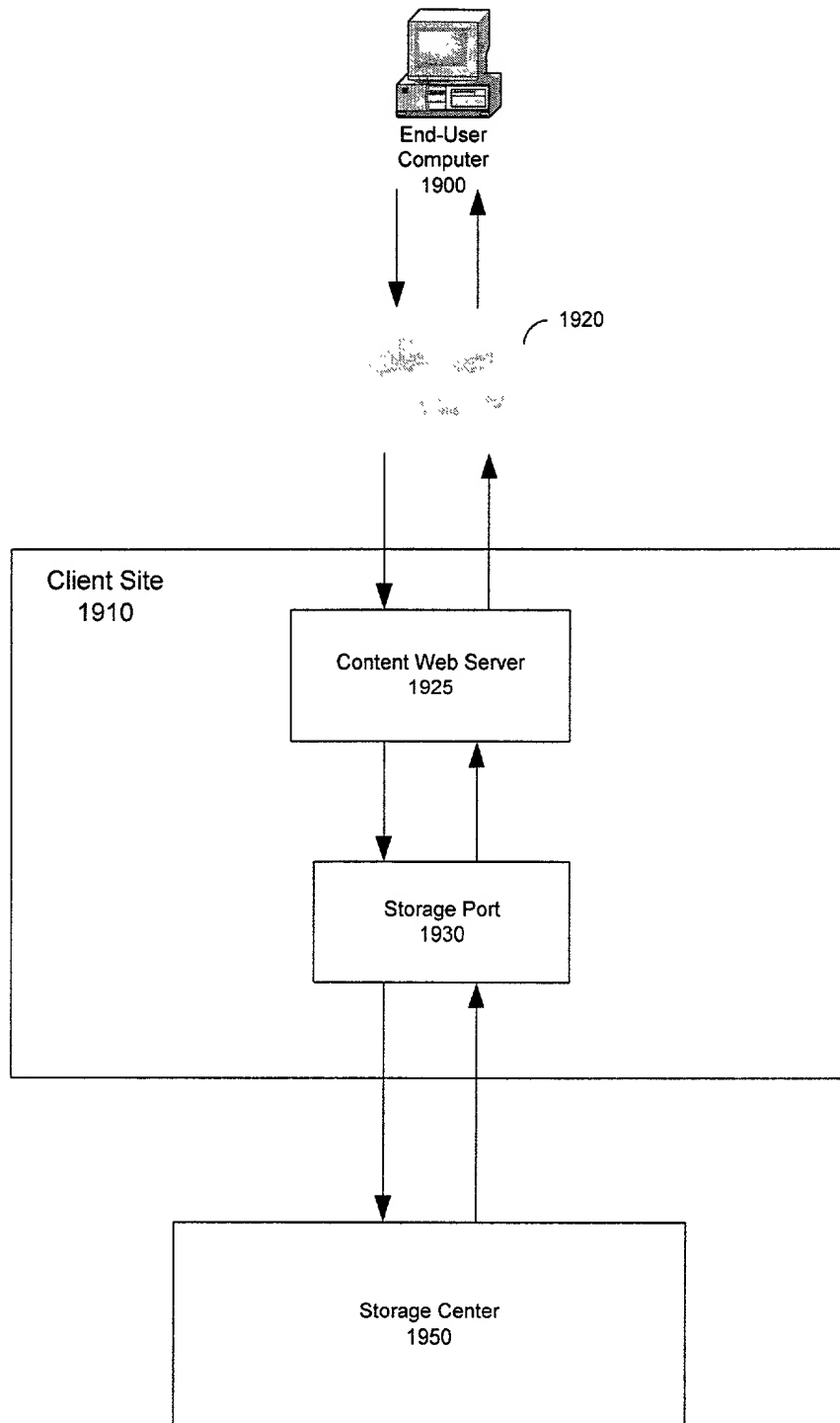


Figure 19

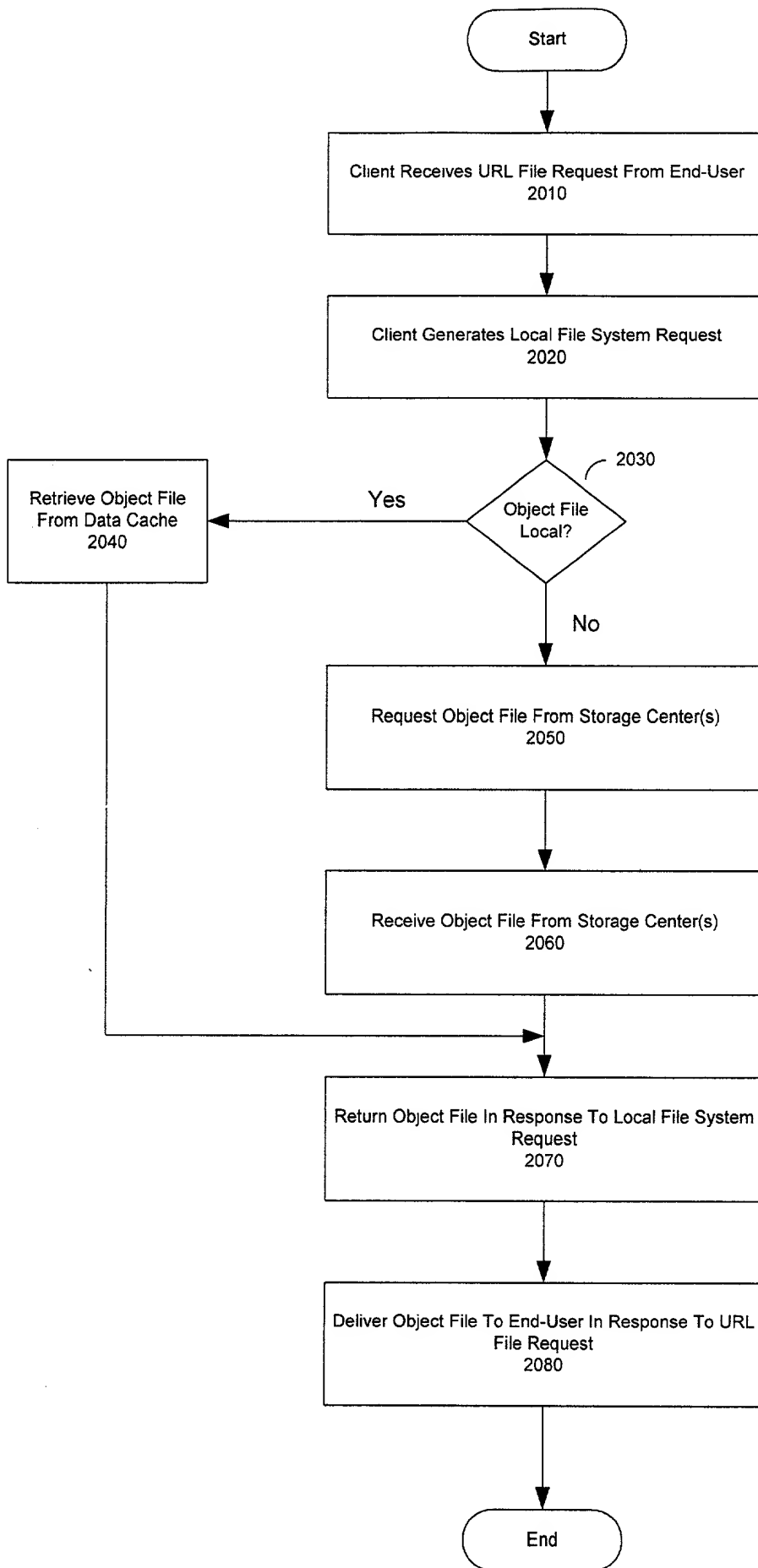


Figure 20

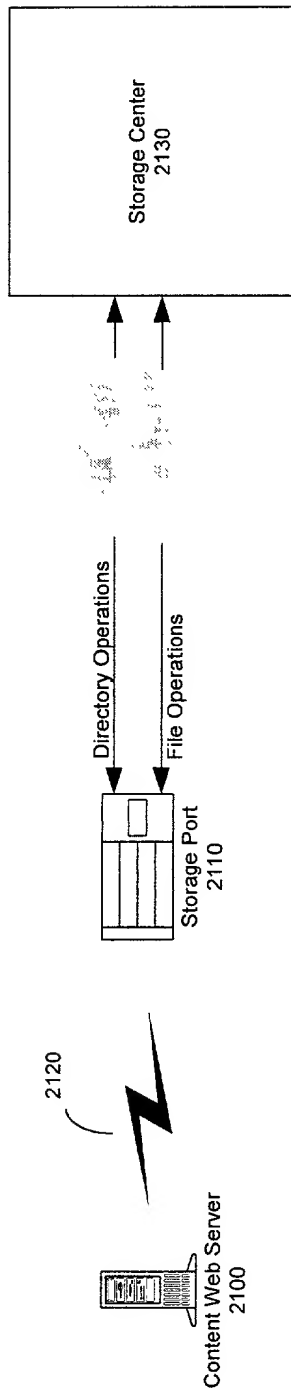


Figure 21a

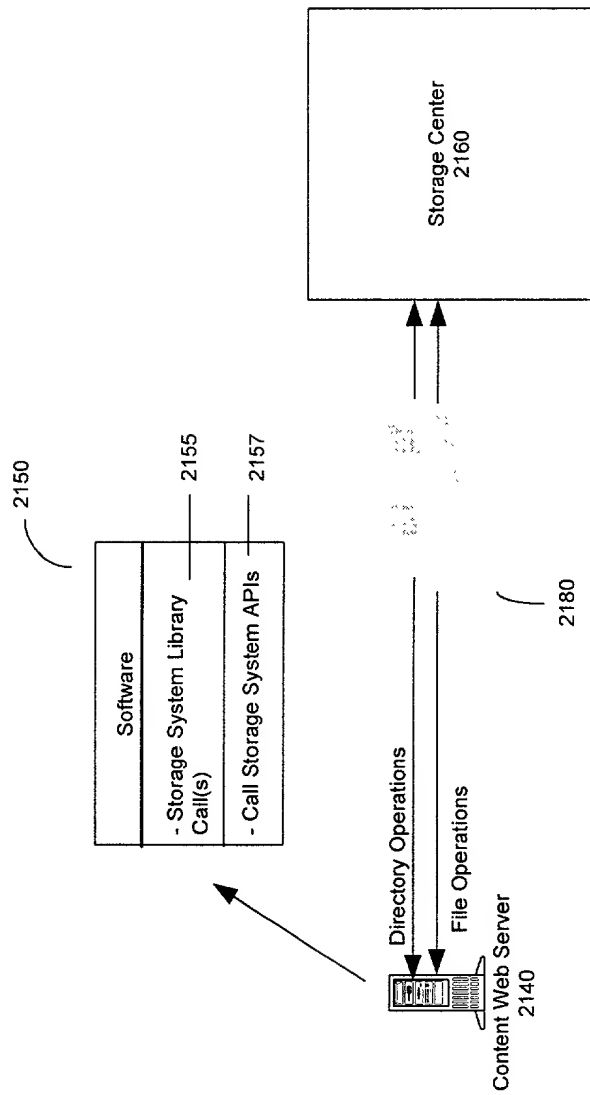


Figure 21b

Storage Port
2200

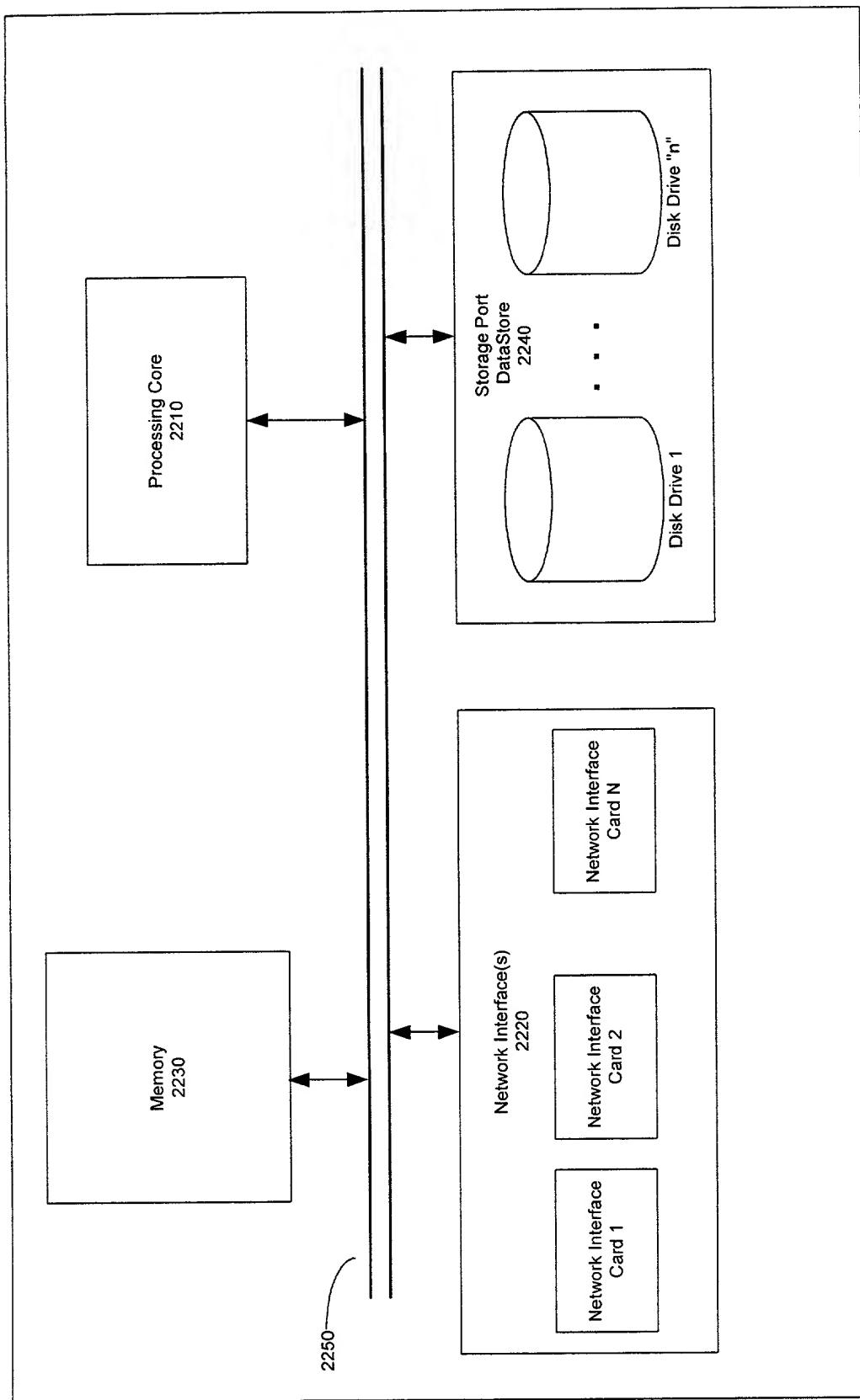


Figure 22

2300

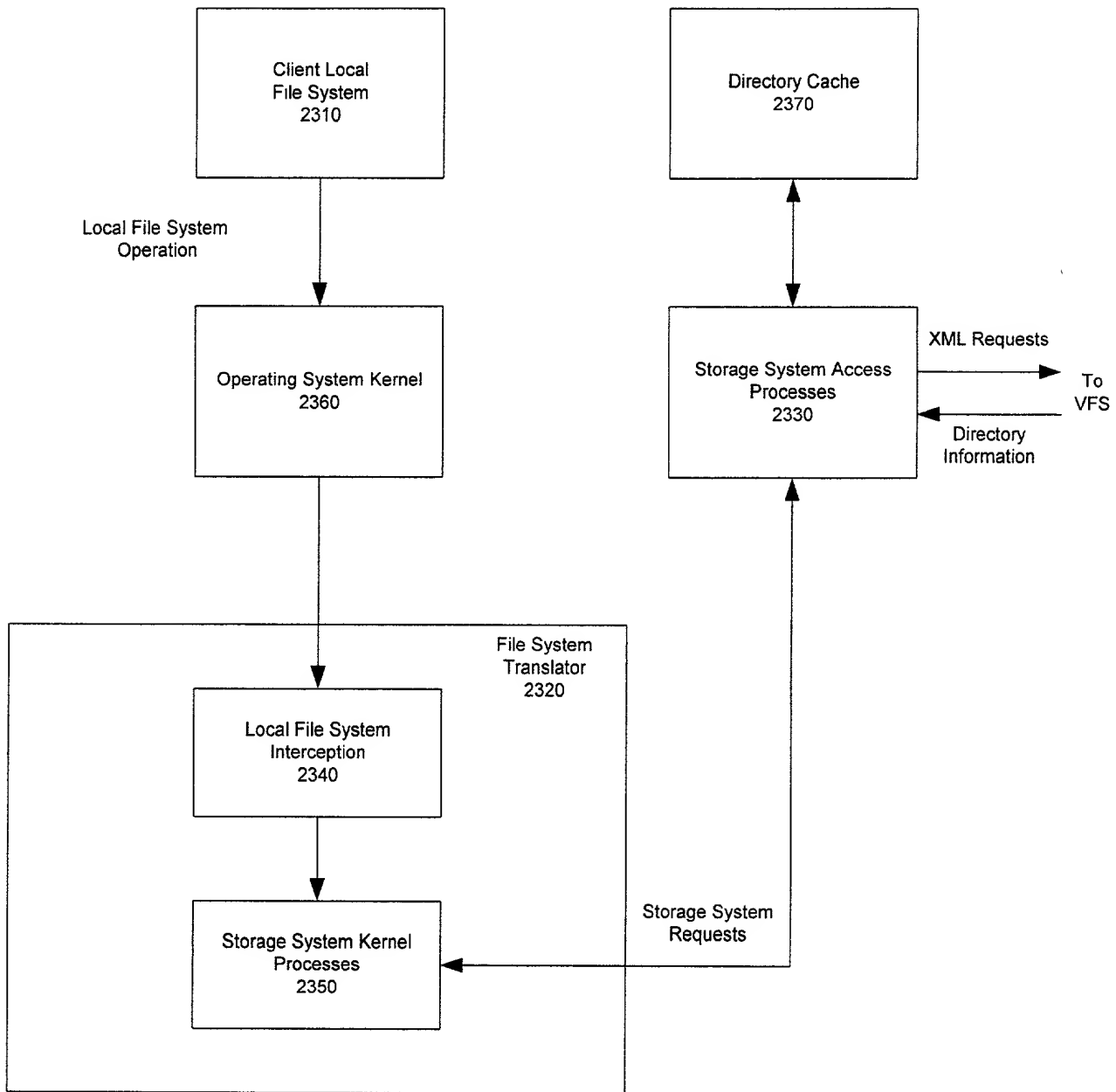


Figure 23

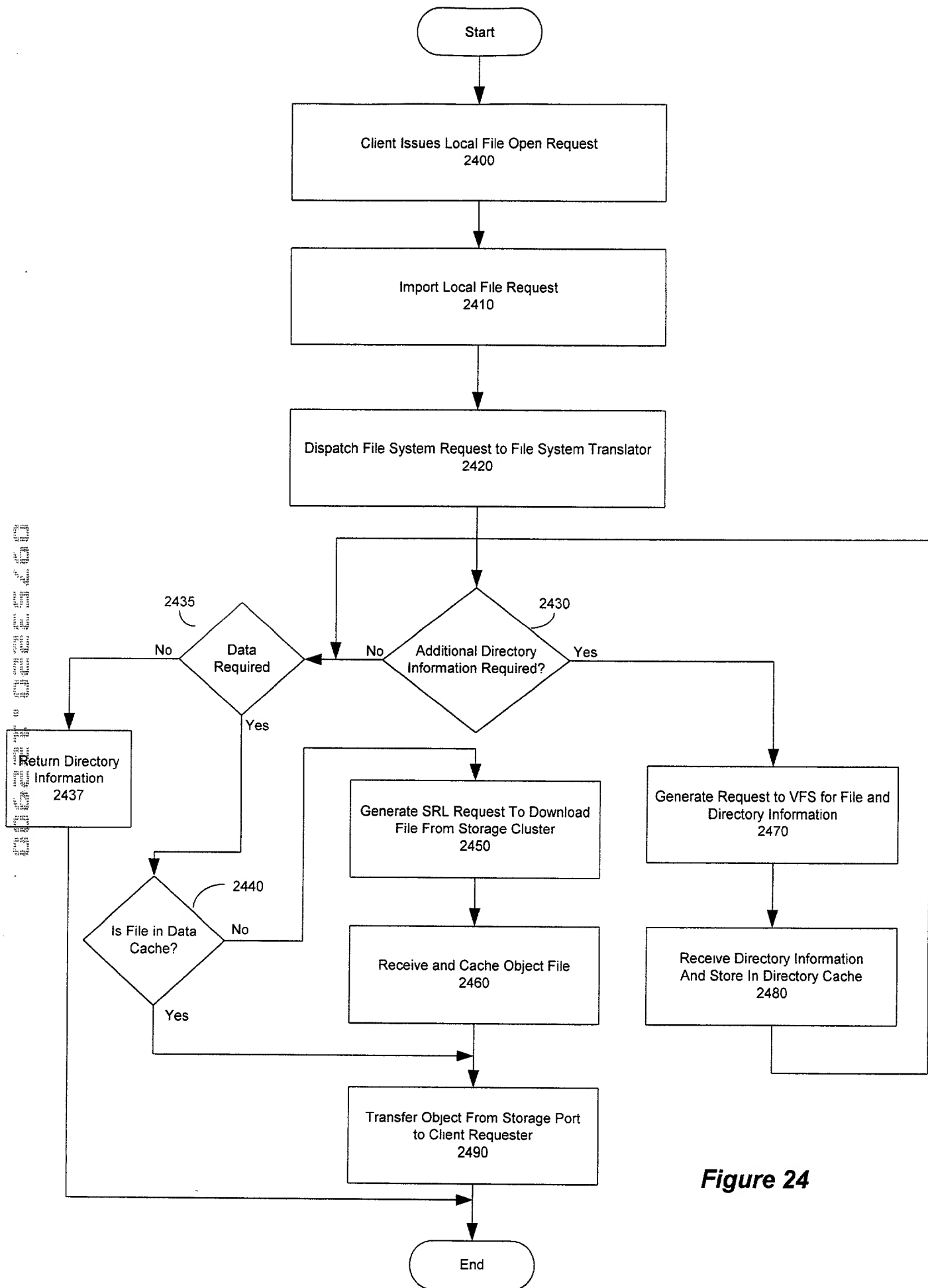


Figure 24

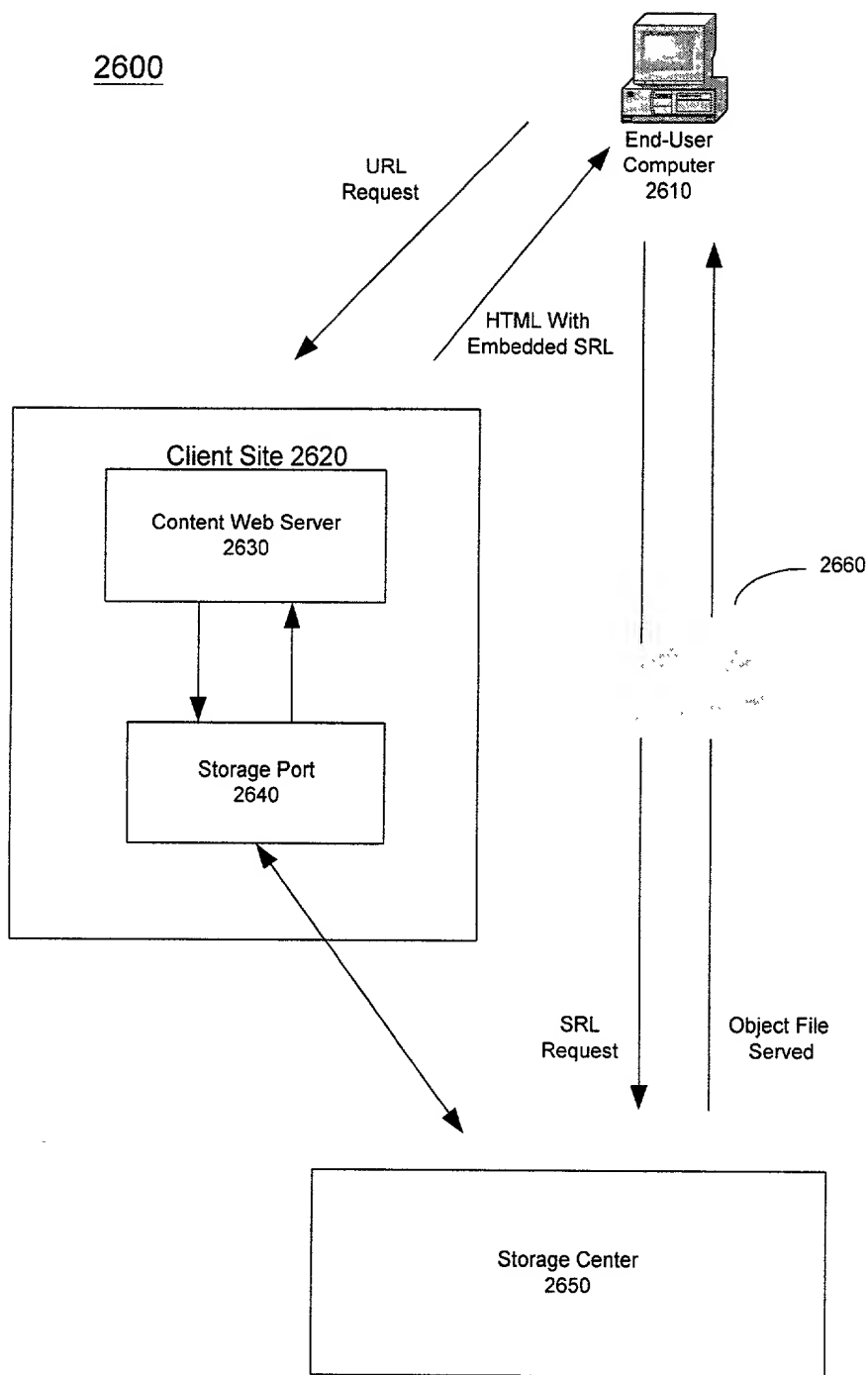


Figure 25

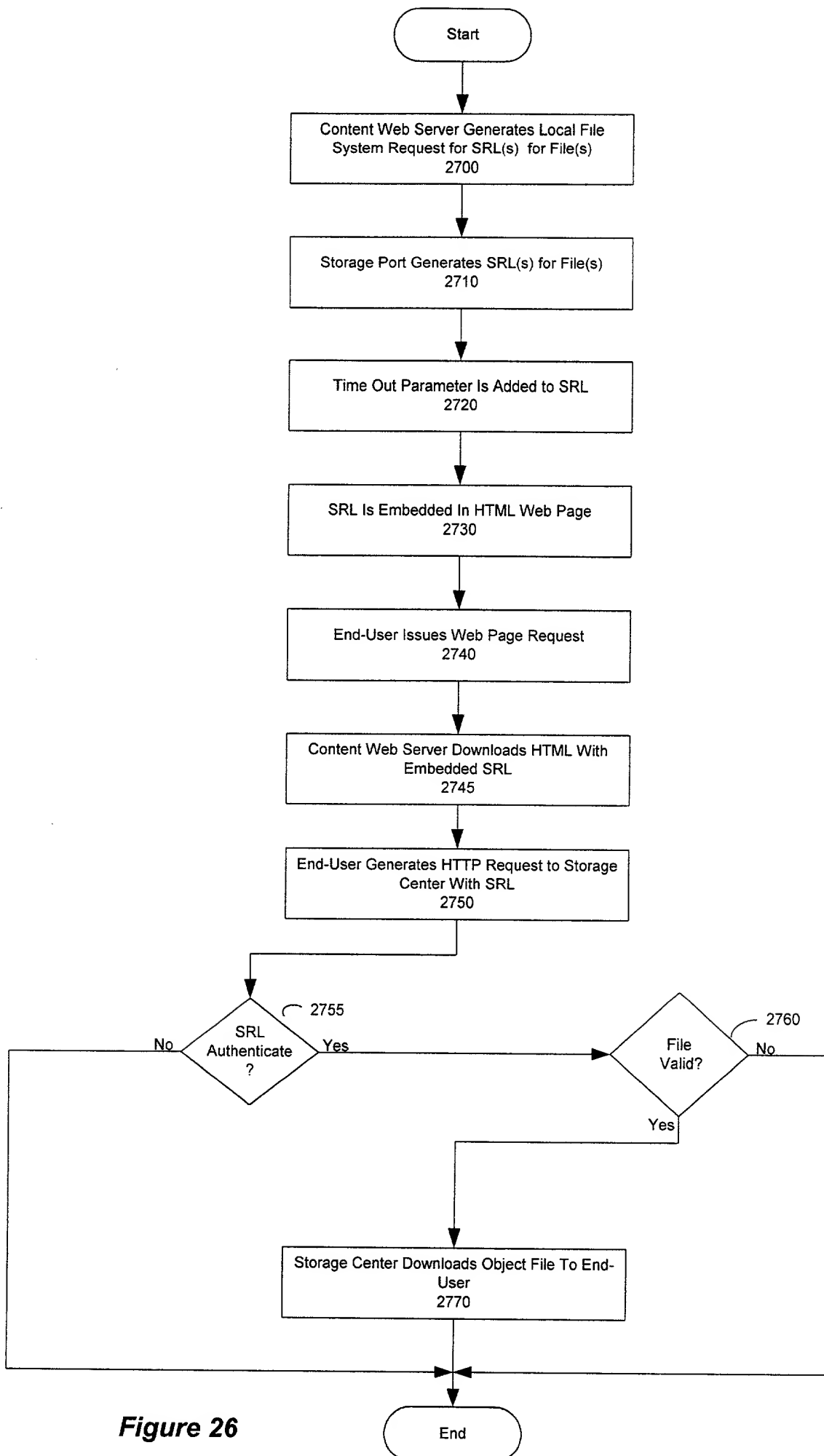


Figure 26

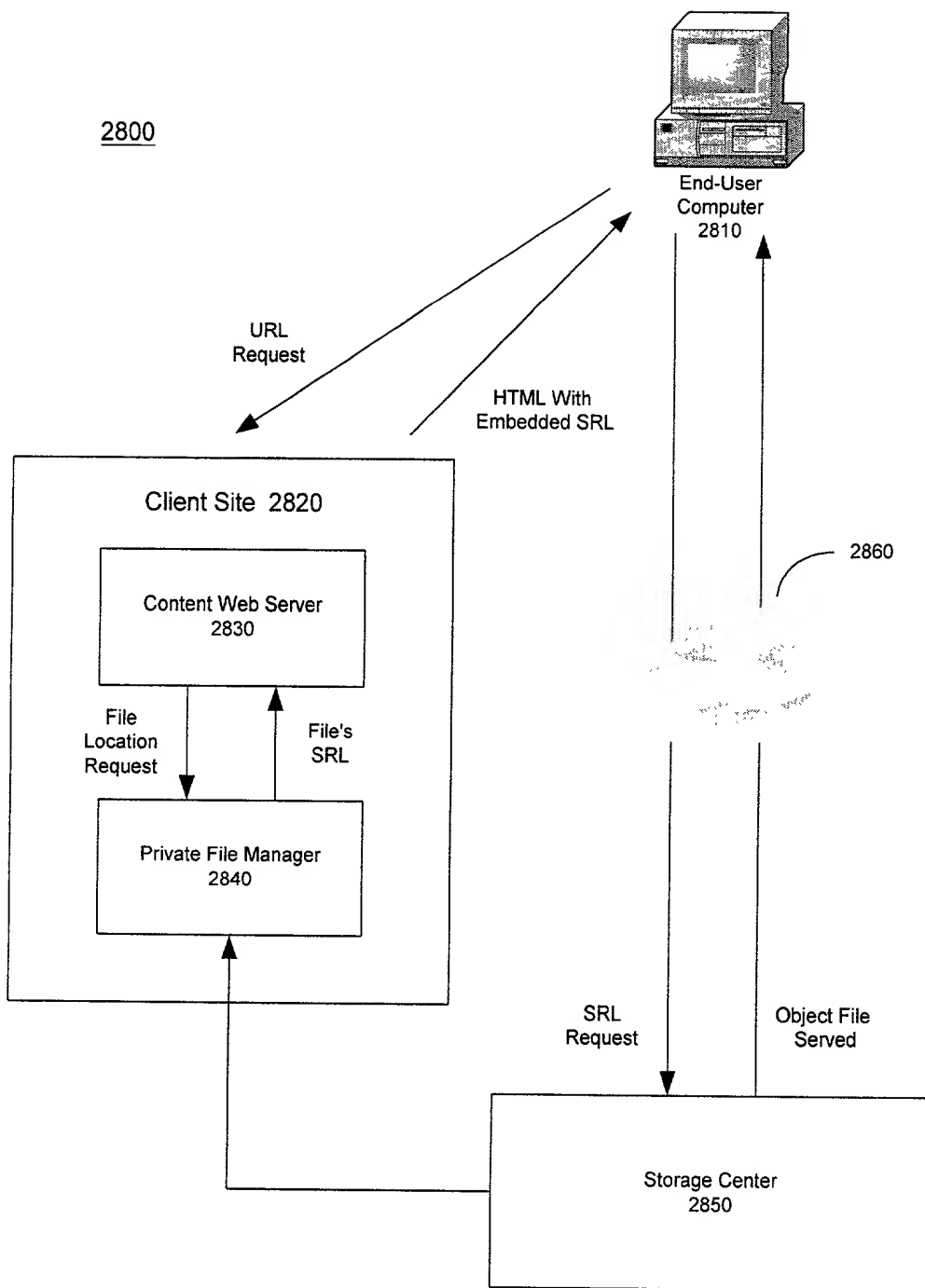


Figure 27

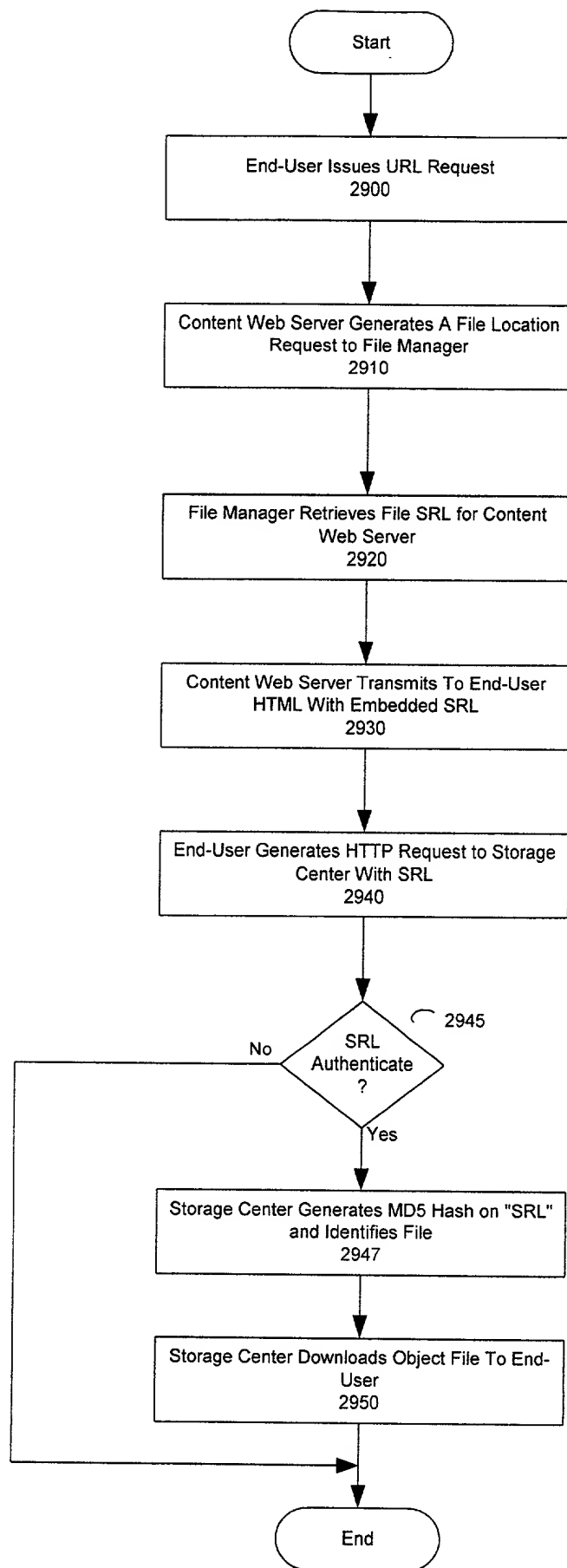


Figure 28

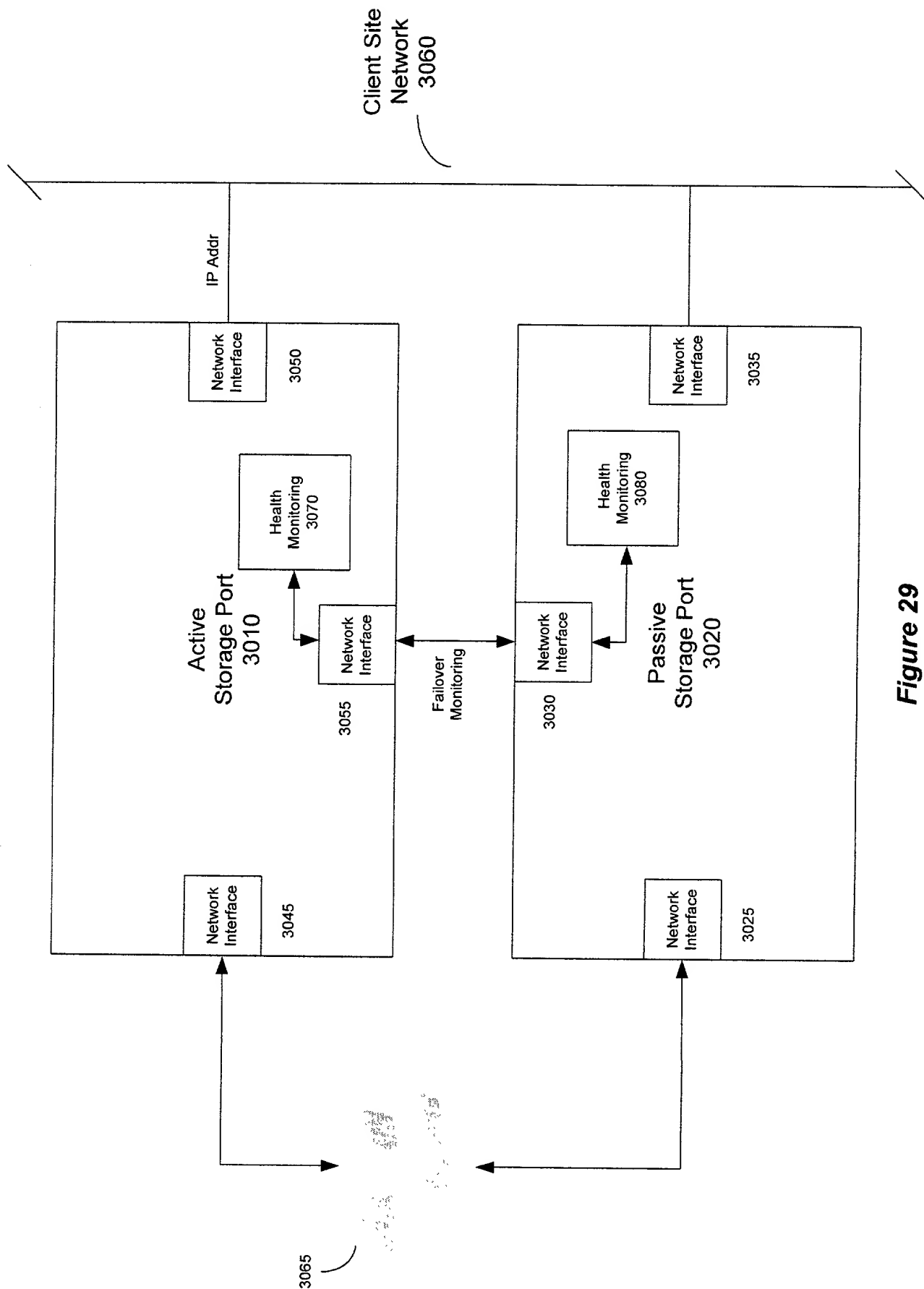


Figure 29

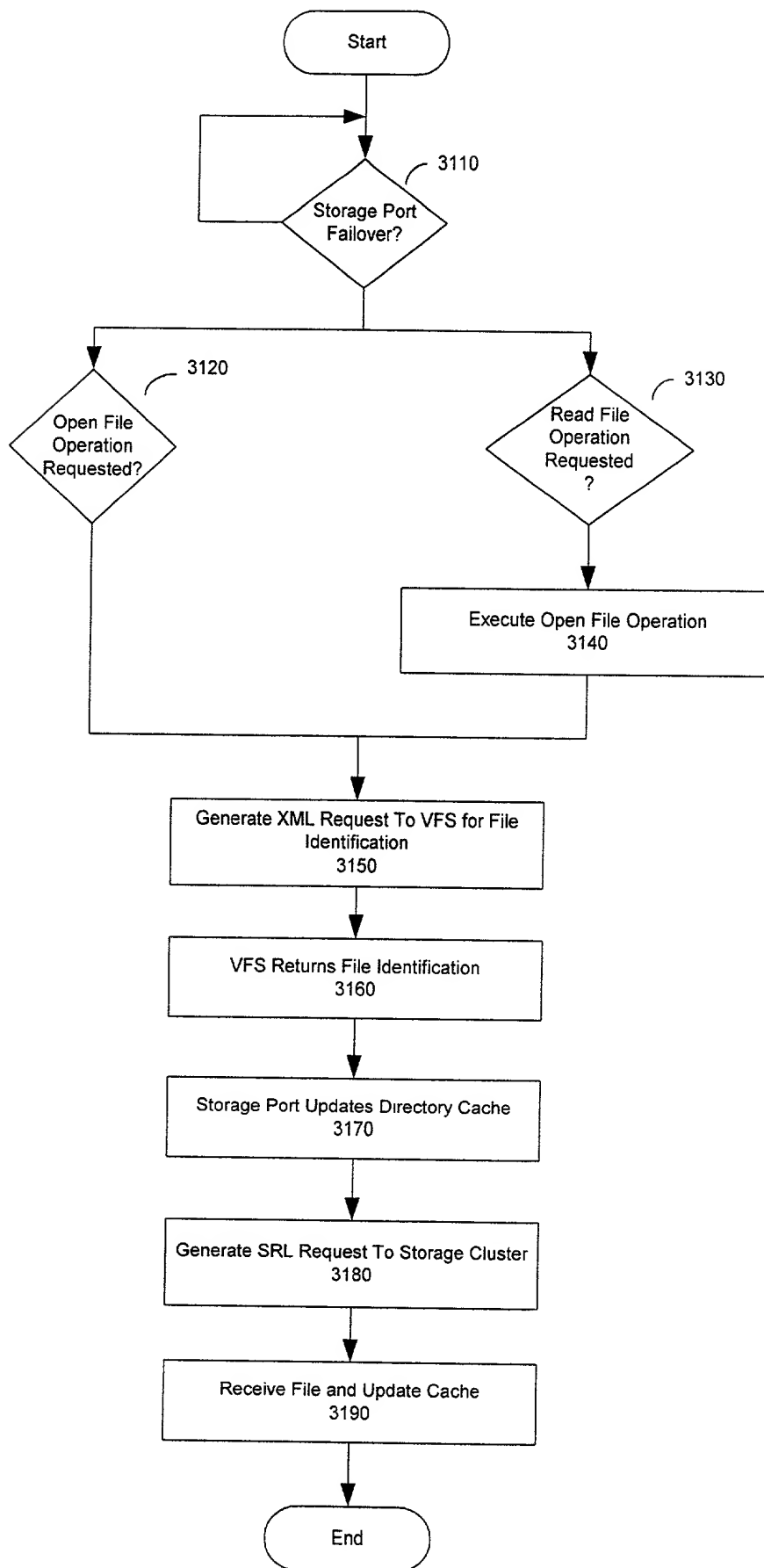


Figure 30

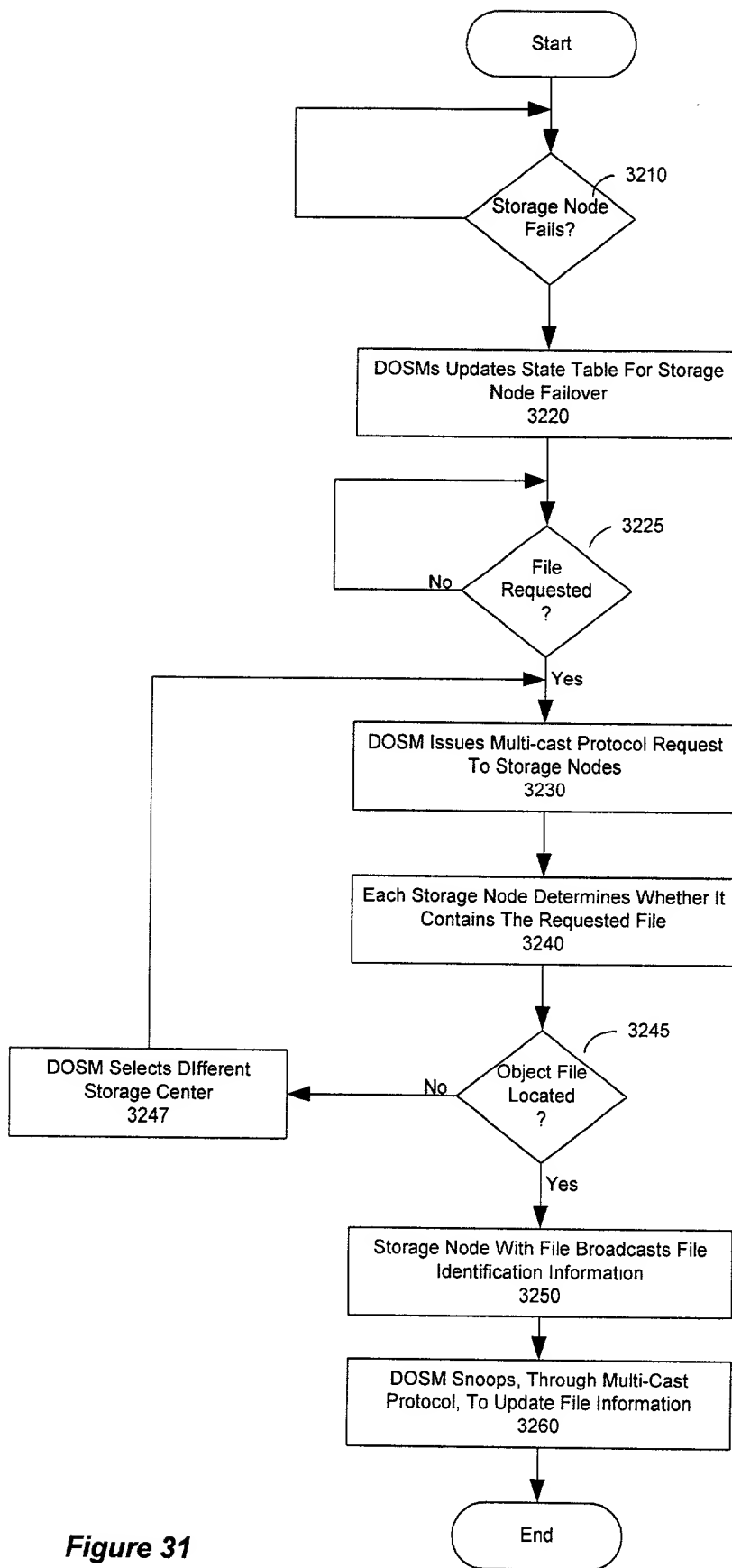


Figure 31